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# GENERAL INFORMATION

The knowledge organiser is a book that sets out the **important**, **useful** and **powerful knowledge** of a single topic on one page.

When used effectively, Knowledge Organisers are useful in:

- Helping build a foundation of <u>factual knowledge.</u>
- Embedding **revision techniques** for now and future studies (A-Level, College, University)
- Allowing knowledge to become stored in **long term memory** which frees up working memory for more complex ideas. It also allows you to connect concepts together, even across subjects

### HOMEWORK EXPECTATIONS

EACH NIGHT you should spend *at least* **1 hour** per night on homework. <u>3 subjects per night x 20 minutes per subject= 1 hour.</u> Use the homework timetable as a guide to what subjects to complete each night.

**Complete all work in your exercise book** and make sure you bring your knowledge organiser to school EVERYDAY (in your coloured folder).

Every FRIDAY morning the week's worth of KNOWLEDGE ORGANISER homework will be <u>checked in Family Group time</u> and detentions issued for work not complete, or not up to standard.

### <u>SUBJECT HOMEWORK</u>

All students will also be assigned **ENGLISH** reading activities on <u>www.CommonLit.org</u> with each assignment taking 20-30 minutes to complete and **MATHS** activities with short explanatory videos on the online platform <u>https://mathswatch.co.uk</u>.

It is also recommended to take advantage of FREE online revision tools such as <u>www.senecalearning.com</u> or the recently updated BBC BITESIZE.

Individual subject teachers will also assign homework to students on Microsoft Teams and Weduc.

### <u>MICROSOFT TEAMS</u>

Remember to check TEAMS regularly for updates and additional home learning files including copies of your mastery booklets.

You can also ask your teachers questions on teams and view videos of 'how to use your knowledge organiser'.

<u>HOMEWORK TIMETABLE</u>						
Year 9	Subject 1	Subject 2	Subject 3			
Monday	Maths	Option A	Option C			
Tuesday	English	Option B	Option C			
Wednesday	Maths	RE	Option D			
Thursday	English	Science	Option A			
Friday	Maths	Science	Option B			

# EQUIPMENT CHECKLIST

Pencil case	Knowledge Organiser	2 Black or Blue pens	
2 pencils and Eraser	Green Pen	Pencil Sharpener	
Mini whiteboard and pen	Calculator	Ruler	
Maths geometry set	Class book		

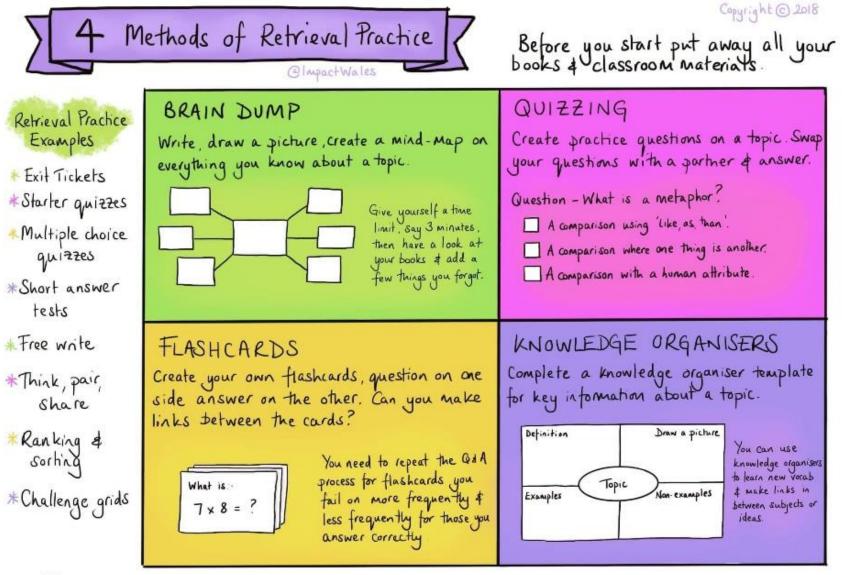
# HOMEWORK CHECKLIST

Week 1	Week 2	Week 3	Week 4	Week	5 Week 6	Week 7
	Halfterm					
Week 1	Week 2	Week 3	Week 4		Week 5	Week 6
						1



# <u>RETRIEVAL PRACTICE IDEAS</u>

Here are some activities that you can try at home with your knowledge organiser to help revise. There are even more strategies on page 3.



After you have retrieved as much as you can go back to your books & check what you've missed. Next time focus on that missing information

EARNING — LOVING — LIVING

# SCIENCE OF LEARNING - HOW TO REVISE EFFECTIVELY

### DUAL CODING

Dual coding is the process of combining visual and written materials. You can visually represent materials using methods such as info graphics, timelines, cartoon/comic strips, diagrams and graphic organisers. Combing images with words or explaining an image makes it more likely to 'stick'.

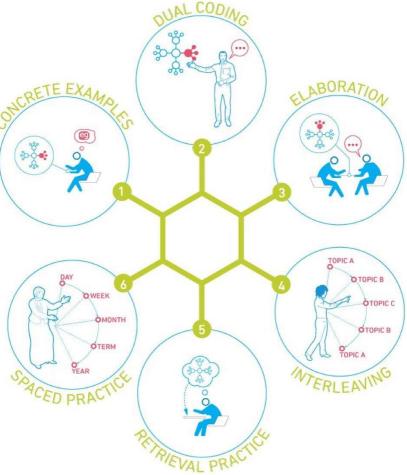


### CONCRETE EXAMPLES

When you're studying, try to think about how you can turn ideas you're learning into concrete examples. Making a link between the idea you're studying and a real life example, concrete example, can help students understand abstract ideas and make it 'stick'.

### SPACED PRACTISE

Divide up your revision into short manageable chunks of time . When revising aim for 20 - 30 minutes per session. Five hours spread out over two weeks is better than the same five hours all at once. This is **spaced practice** and it is regarded as one of the most effective revision strategies.



### **RETRIEVAL PRACTICE**

Through the act of retrieval, or calling information to mind, our memory for that information is strengthened and forgetting is less likely to occur. Retrieval practice ideas include: Read, cover, write, check, flashcards and brain dumps.

### **ELABORATION**

When talking about studying, elaboration involves explaining and describing ideas with many details. Elaboration also involves making connections among ideas you are trying to learn. Ask yourself questions about a topic to delve deeper. The more information you have about a specific topic the stronger your grasp and ability to recall.

### INTERLEAVING

Interleaving is a process where you combine multiple subjects and topics while you study in order to improve learning. Switch between ideas and make links between them during a study session. Interleaving has been shown to lead to better long-term retention

# YEAR 9— TRINITY TERM - ENGLISH — AN INSPECTOR CALLS



Who	What	Notes
Stage directions	Dinner jackets, large surburban house, port, champagne	Extreme opulence. Insular existence divorced from reality of poverty and lower class struggles
Birling	We're in for a time of steadily increasing prosperity	Birling is pontificating about the future, believing that he is infallible. Priestley uses dramatic irony to accentuate B's ignorance, arrogance and pomposity.
Birling	A hard-headed practical man of business	'hard-headed': B means that he is resilient and powerful. Audience a reminded of his stubborn and ignorant nature. B is an arch-capitalist
Birling	Sees his daughter's marriage as a business transaction	Callous, dehumanizing: subjugation of women even prevalent in upper classes
Birling	The Titanicunsinkable, absolutely unsinkable	Pomposity. Titanic is metaphor for arrogance of upper class
Birling	The way some of these cranks talk and write now, you'd think everybody has to look after everybody else, as if we were all mixed up together like bees in a hive-community and all that nonsense	B uses derogatory and dismissive language (cranks). B is dogmatic and supercilious. B has disdain for socialism (it would remove his hierarchical advantage!) B wants a stratified, atomized society.
Insp.	One person and one line of enquiry at a time	authoritative and in command
Birling	She'd had a lot to say-far too much-so she had to go of course.	authoritarian: lacks compassion. Eva wanted small pay rise. B is callous and ruthless. women have no voice in society
Birling	It's a free country I told them	Arrogance: not free! Free if rich and male. no welfare state, no universal suffrage until 1928!
Insp.	They might. But after all it's better to ask for the earth than to take it	criticizing B's (and upper class) greed.
Sheila	But these girls aren't cheap labour-they're people	disagrees with B: generation gap. Priestley is optimistic about future 'younger ones' are more compassionate. S is first to change.
Sheila	But I felt rotten about it at the time and now I feel a lot worse	repentant, remorseful, penitent. S had Eva fired because S was jealous. S abused her power and influence. S lives insular life: no clue about the Eva's desperate plight
Sheila	It's the only time I've ever done anything like that, and I'll never, never do it again to anybody	'only time': was she emulating parents' callous behaviour? S represents promise of better future: compassionate/socialist

# <u>YEAR 9— TRINITY TERM - ENGLISH — AN INSPECTOR CALLS</u>



Who	What	Notes
insp.	You see, we have to share something. If there's nothing else, we'll have to share our guilt.	Birlings are immoral. They have contempt for collective responsibility.
Insp.	We often do on the younger ones. They're more impressionable	generation gap
Sheila	He's been steadily drinking too much for the past few years	dysfunctional relationship with B. Hedonistic life of privilege and entitlement. Wealth has corrupted him: hypocrisy! (B and Mrs.B think poor are degenerate and immoral!)
Gerald	She looked young and fresh and charming	G objectifying Eva. complimentary but he exploits her desperation
Gerald	I didn't install her there to make love to her	Denial suggests guilt: G's infidelity is evidence of his immorality. Sordid
Birling	Defends Gerald's infidelity	Cares more about merger? Genuinely thinks this is ok? Immoral!
Gerald	I didnt feel about her as she felt about me	Disparity between G and Eva: G exploits Eva and abuses his position of privilege and power
Gerald	I insisted on a parting gift of enough money-though it wasn't much-to see her through to the end of the year	Transactional relationship: money used to assuage guilt. hints at prostitution/dehumanisation
Insp.	She felt that there'd never be anything as good again for her-so she had to make it last longer.	Eva's desperation. Eva is exploited by G.
insp.	(massively) Public Men, Mr.Birling, have responsibilities as well as privileges.	Insp. admonishes B. B was Lord Mayor but only for fame and prestige. Like Mrs.B (charity role is for power and fame not compassion.
Mrs.B	Girls of that class	Mrs.B stereotyping the poor as degenerate and immoral. Irony is that she is the immoral one!
Mrs.B	You know of course that my husband was Lord Mayor only two years ago	Attempting to intimidate Insp. superciliousness
Mrs.B	She impertinently made use of our name	'impertinently': supercilious and haughty! Irony: Mrs.B condemns father (Eric) hypocritical: won't punish her own son!
Mrs.B	She was claiming elaborate fine feelings and scruples that were simply absurd for a girl in her position.	Dehumanizing lower class. callous.
Birling	Cares only about reputation and 'inquest' not death of Eva	

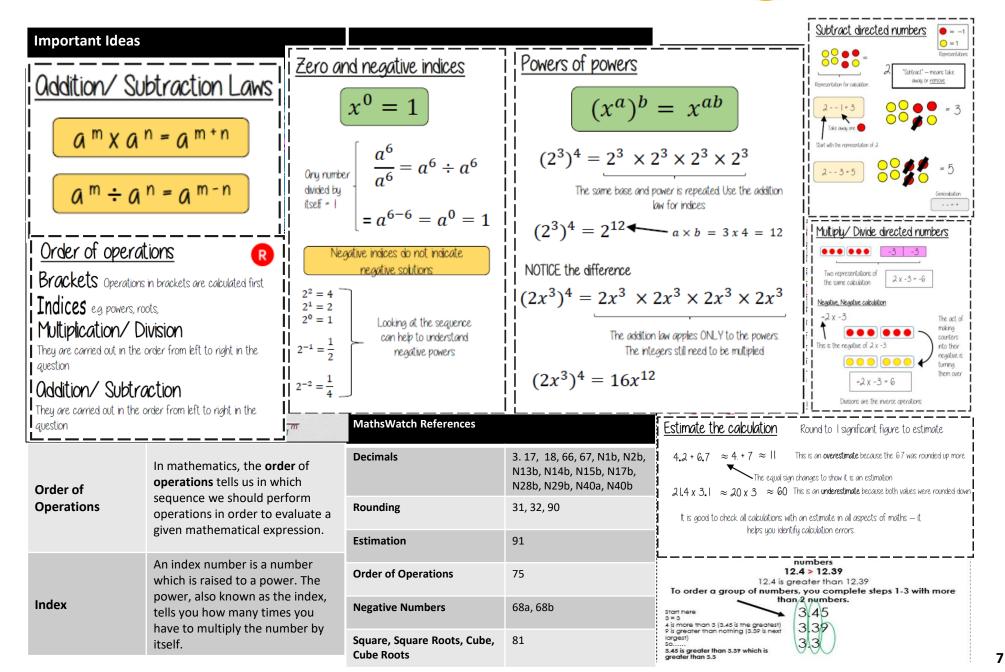


# Act 3 Summary: Inspector's final admonishment and exit. Aftermath: was it real? does it matter? Young are changed. Old refuse to accept responsibility.

Who	What	Notes
Eric	I'm not very clear about it, but afterwards she told me that she didn't want me to go in but that-well, I was in that state when a chap easily turns nasty-and I threatened to make a row.	Threatened violence to get sex. Alcoholic, hedonistic life free from responsibilities.
Eric	Steals money from dad	Steals to help but stealing is wrong.
Eric	Castigates Mrs.B for killing Eva	Defiance: break from expected obedience to elders. E is incredulous at Mrs.B's callousness
Eric	You're not the kind of father a chap could go to when he's in trouble	Dysfunctional relationship with B. B focused on business, ignoring family
Insp.	But each of you helped to kill her. Remember that	Collective responsibility.
Insp.	There are millions and millions and millions of Eva Smiths and John Smiths still left with us, with their lives, their hopes and fears, their suffering and chance of happiness, all intertwined with our lives, and what we think and say and do. We don't live alone. We are members of one body. We are responsible for each other. And I tell you that the time will soon come when, if men will not learn that lesson, then they will be taught it in fire and blood and anguish.	Marginalized are the majority (repetition of 'millions'). lower class life is precarious ('still). omnipresence of suffering. biblical rhetoric (tricolon at end), hinting at WW1. compare speech with B and Mrs.B's antithetical views.
Eric	The money's not the important thing. It's what happened to the girl and what we all did to her that matter. And I still feel the same about it, and that's why I don't feel like sitting down and having a nice cosy talk.	E is remorseful, like S. criminality is irrelevant: they have a moral duty to others
Eric	We did her in alright	Accepts responsibility.
Ending	is it a hoax? was Eva real? does this matter?	E and S have changed: remorse, responsibility, guilt. MrsB and B only care about reputation and scandal. Mrs.B and B mock E and S for being gullible. Ending=final phone call: inescapability and absolute necessity of change.

### YEAR 9— TRINITY TERM — MATHEMATICS (FOUNDATION) - CALCULATIONS, APPROXIMATIONS

# EARNING - LOVING - LIVING



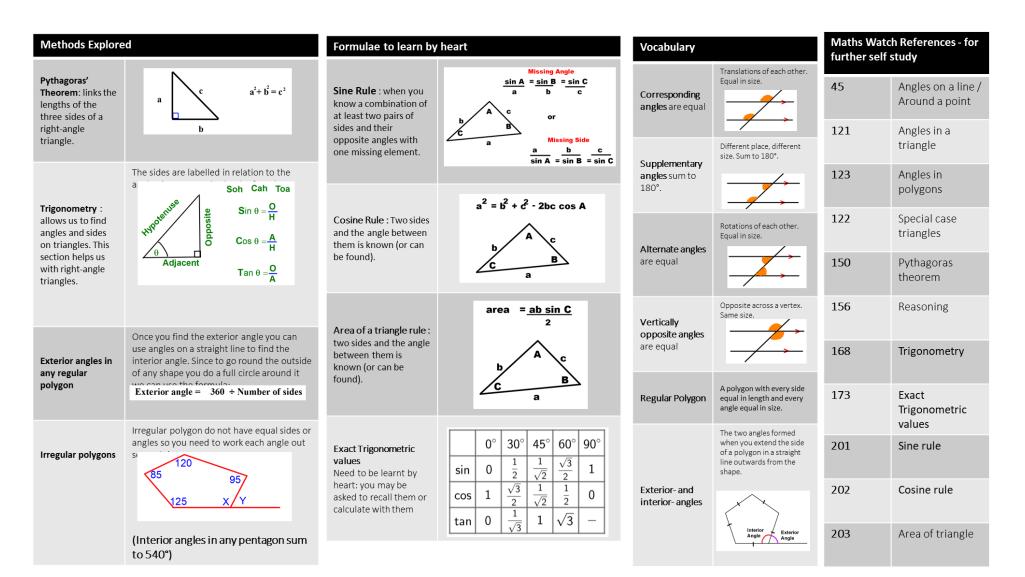
# YEAR 9— TRINITY TERM — MATHEMATICS (FOUNDATION) - 2D AND 3D SHAPES, AREAS AND VOLUMES



Importa	ant Ideas							
Cube	Net of Cube Area of Shapes				Key Facts &	Formula		
Formula for the surface area of a cuboid We can find the formula for the surface area of a cuboid $y_{ac}$ trapezoid $b_{2}$ parallelogram $b_{1}$ parallelogram $b_{2}$ parallelogram $b_{2}$ parallelogram $b_{3}$ parallel			9 cm 18 mm		r Perimeter I		Perimeter of a rectangle of length L and width W is	
as follows.	Surface area of a cuboid =	Find the volum of the cuboid	e Find the circumference of	Find the area of the circle above.			2 L +2 W	
	2 × <i>hw</i> Top and bottom S h	above.	the circle above.		Figure	Formulas	for Volume (V) and Surface Area (SA)	
	+ 2 × <i>lh</i> Left and right side Surface = b x h = s <sup>2</sup> Surface = $\frac{b x h}{2}$ Surface = $\prod x^{2}$				Rectangular Prism $V = lwh = length \times width \times height$ SA = 2lw + 2hw + 2lh		w + 2lh	
Vocabulary		V = I x w x h C = 2πr or πd V = 12 x 9 x 11 C = 2 x 3.142 x 18		A = $\pi r^2$ A = 3.142 x 18 <sup>2</sup>		= 2(length	length $ imes$ width) + 2(height $ imes$ width) + 2(length $ imes$ height)	
Perimeter	The perimeter of a plane figure is the length of its boundary.	V = 1188 cm <sup>3</sup>	C = 113.04 mm	A = 1017.36 mm <sup>2</sup>	General Prisms	1	of base × height He areas of the faces	
Area	The amount of space inside the				Right Circular			
	boundary of a flat (2-dimensional) object such as a triangle or circle, or	MathsWatch References		Cylinder $V = Bh = \text{area of base} \times \text{height}$ $SA = 2B + Ch = (2 \times \text{area of base}) + (circumference)$		,		
	surface of a solid (3-dimensional) object.	Perimeter	52, G8a, G8b				-	
Solids	A solid shape is a three-dimensional figure that has width, depth and height. Examples of solid shapes include cubes,	Area	53, 54, 55, 56, 114a, 114b, 117, G9, G20a, G20b, G20c, G20d, G22b, G24		Right Pyramid	$SA = B + \frac{1}{2}P\ell$	: area of base × height se + ( <sup>1</sup> / <sub>3</sub> × perimeter of base × slant height)	
	pyramids and spheres.	Solids	43		Right Circular		2	
Volume	ne Volume is the amount of space inside a three-dimensional object, or its capacity.		116, 117, 118, 167,	G2, G22a, G22b	Cone		area of base $\times$ height area of base + $\langle \frac{1}{2} \times$ circumference $\times$ slant height)	
Nets of	A <b>net</b> is what a 3D (three-dimensional)	Volume	115, 119, G21a, G25a					
Shape			44, G12c		Sphere	<sup>3</sup> <sup>3</sup>	$\pi \times$ cube of radius $\times \pi \times$ square of radius	
Surface Area	<b>Surface area</b> is the total <b>area</b> of the faces and/or curved <b>surface</b> of a solid figure.	Surface Area	114a, 114b, G21b,	G25b				

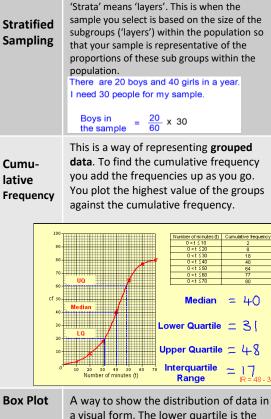
### YEAR 9— TRINITY TERM — MATHEMATICS (HIGHER) — GEOMETRY



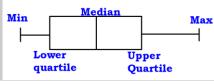


### YEAR 9— TRINITY TERM — MATHEMATICS (HIGHER) — DATA HANDLING

### **Methods Explored**

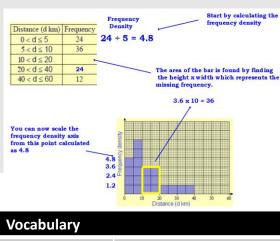


a visual form. The lower quartile is the value 25% of the way through the data. The median is the middle value. The Upper quartile is 75% of the way through the data. The interquartile range is the difference between the UQ and LQ. The IQR gives a measure of spread that excludes outliers around the max and min values (unlike the range). The IQR is therefore more reliable.



### Histograms

Similar to a bar chart. Frequencies are shown not by height, but by the areas of the rectangular bars. The frequency density is found when you divide the frequency by the class width (group width)



vocabulary		ropulation	
Modal Class	The group with the highest frequency		
Inter-Quartile Range	Upper quartile – Lower quartile. This is a measure of spread / consistency.	Sample	
	A line which goes through the middle of the points to best describe the		
Line of best fit	general <b>correlation</b> . You should try to place it so that the same number of points are above and below the line and that it goes in the general direction of the points. It does <b>not</b> have to join to the <b>origin</b> of the graph.	Random Sample	
Discrete data	Data which takes only certain values. E.g shoes sizes may take half-values, jeans sizes are even numbers only.	Bias	
Continuous data	Data that can take any value, within a range, as it is measured.		



Vocabulary		Maths Refere	Watch
Correlation	Where there is a pattern between two variables. Correlation does not mean cause and effect.	57	Frequency Trees
Frequency	The number of times something happens or appears.	61	Two-Way Tables
	Data which is more consistent varies less: the values tend to be closer together (lower	62	Averages and the Range
Consistency	range and IQR). Less consistent data is more spread out.	63	Data - Discrete and Continuous
Outlier	An extreme value: far above or far below where most values lie.	65	Frequency Tables and Diagrams
Data Set	Set The numbers or data collected for an investigation.		Averages from a table
Population	Everything or everybody that could possibly be involved in an investigation	152	Sampling Populations
Sample	A selection of people or things taken from the population. It is often quicker	153	Time Series
Sample	and cheaper to study a sample rather than the whole population.	176	Stratified sampling
Random	Where every member of a population has an equal chance of selection. This	186	Cumulative Frequency
Sample	means the sample is representative or un-biased.	187	Box Plots
Bias	Not representative of the population. Some groups of the population are over- or	205	Histogram s
	under -represented.		



### **Electric charge and current**

Every atom contains particles with an electric charge: protons and electrons. By getting electric charges to flow, we can get them to do work (i.e. transfer energy) in all sorts of useful ways. For that is what happens in any electric circuit you can think of: *flowing charges transfer energy*.

If we want to get electric charges to flow, we must make a closed, or complete circuit – a loop of conducting materials, like metal wires. Then, we must provide a source of potential difference. The source of potential difference could be a cell, battery or the mains. What these sources do is to create a *difference* in electrical *potential* energy – hence the name. This provides the force to make the electric charges in the conductors flow. When electric charges, like electrons, are flowing, we call it an electric current.

2A

2A

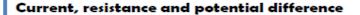
2A

2A

The size of an electric current is simply the rate of flow of electric charge.

So current (I) = 
$$\frac{Q}{r}$$
 or  $Q = It$ 

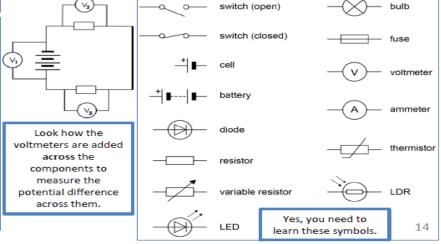
In a circuit, in any closed loop of the circuit, the size of the current is the same throughout the loop. As shown on the diagram, the current is the same in all parts of the loop, including through the battery and through the resistors.



Cells and batteries etc. are sources of potential difference. This means they boost the potential energy of charges in a circuit. Other components, like resistors or bulbs, do work – so they take the potential energy of the charges and transfer it into some other form, like light or heat. In a circuit, all the energy provided by the cell/battery is transferred by the components in the circuit all together. So, in components like bulbs, the charges do work – i.e. they transfer energy. By definition, this means they have a potential difference across them. We say 'across' since it is a difference, from one side of the component to the other.

The current through a component depends on this potential difference across the component, but also its resistance. Without any resistance, a component would <u>do no work</u> (try putting a 0 in the equation!), so things like bulbs HAVE TO have resistance. The resistance of a component, along with the potential difference across it, determines the current through it, as shown in the second equation. It shows us that: if we keep the potential difference the same, but increase the resistance, the current must *decrease*. If we keep the potential difference the same, but decrease the resistance, the current must *increase*.

Key Terms	Definitions				
electric charge	Just a positive or negative charge! In most electrical circuits, the electric charges that are flowing are electrons – which are of course negatively charged. Symbol: Q				
current	The rate of flow of electric charge (i.e. speed). Calculated by dividing the size of the charge by the time. Symbol: ${\cal I}$				
potential difference	Also known as voltage, or p.d The potential difference is a measure of how much work is done per coulomb of charge.				
resistance	Resistance determines the size of the current for a particular potential difference.				
Equation	Meanings of terms in equation				
Equation Q = l t	Meanings of terms in equation Q = charge flow (coulombs, C) I = current (amperes, A) t = time (seconds, s)				
	Q = charge flow (coulombs, C) I = current (amperes, A)				





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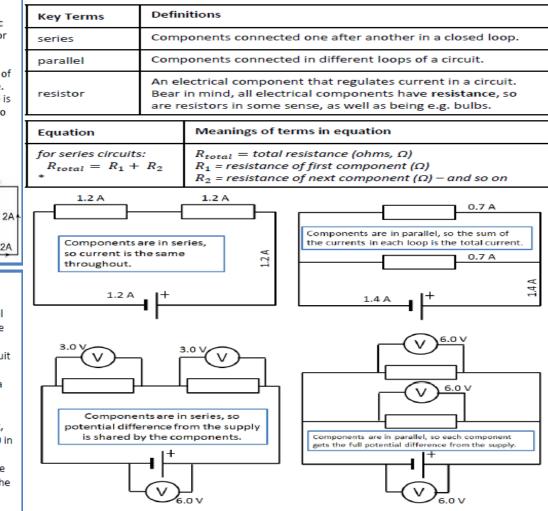
2A

In a circuit, in any closed loop of the circuit, the size of the current is the same throughout the loop. As shown on the diagram, the current is the 2A same in all parts of the loop, including through the battery and through the resistors.

### Current, resistance and potential difference

Cells and batteries etc. are sources of potential difference. This means they boost the potential energy of charges in a circuit. Other components, like resistors or bulbs, do work - so they take the potential energy of the charges and transfer it into some other form, like light or heat. In a circuit, all the energy provided by the cell/battery is transferred by the components in the circuit all together. So, in components like bulbs, the charges do work - i.e. they transfer energy. By definition, this means they have a potential difference across them. We say 'across' since it is a difference, from one side of the component to the other.

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## YEAR 9— TRINITY TERM — PHYSICS - ELECTRICITY

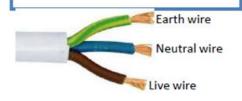


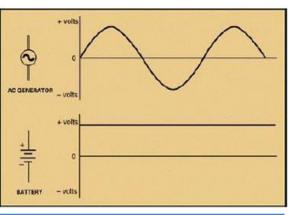
### **Direct and alternating** potential difference

The flow of charge (current) in a circuit can travel in one direction around the circuit only. This is due to a direct supply of potential difference, also known as dc. Cells and batteries provide a direct potential difference. However, it is possible for the direction of the current to change back and forth in a circuit. This happens when there the supply provides an alternating potential difference - also known as ac. This means the p.d. is constantly switching from positive to negative, which you can see if you measure the p.d. and produce an image of is on an oscilloscope, as the diagram shows. The rate at which the p.d. switches from positive to negative is called the frequency of the supply. The bottom image, since the supply is a battery, shows a direct potential difference.

### Three-core cables

We connect most electrical appliances to the mains with a three-core cable. The three pins on a plug are just the three ends, or terminals, of the three wires in the cable. Each wire in insulated in a different colour.





### Mains electricity

Mains electricity (the supply into your house/school etc. that comes through the plugs) is an ac supply. In the UK, we have a supply with a p.d. of about 230V, and the frequency is 50 Hz.

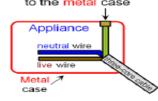
	Wire in three-core	Colour code of the	Function	Key Terms	Definitions		
		insulation		direct p.d.	A supply where the potential difference is fixed at a certain value, so the current flows in one direction only		
	Live wire	Brown	Carries the alternating p.d. from the supply to the appliance	alternating p.d.	A supply where the p.d. switches between positive a negative, reversing the direction of the current frequently.		
	Neutral wire	Blue	Completes the circuit. The neutral wire is at 0 V (earth potential).	frequency	The number of times the p.d. reverses direction every second. Measured in Hertz (Hz).		
I				The national grid			
	Earth wire	Yellow and green stripes	Earth wires are at 0 V. They are safety wires, and only carry a current if there is a fault and the appliance has become live (electrified).	It consists of a r two types of tra transfer from po	d connects power stations to consumers of the power – like you. network of cables (i.e. power lines) and transformers. There are insformers; together they improve the efficiency of the energy ower station to homes and schools etc.: nsformers <i>increase</i> the p.d. from the power station to the		

- transmission cables. This reduces the current so less energy is lost as heat.
- 2. Step-down transformers decrease the p.d. from the cables to a much lower value (230V, generally) for domestic use. This increases the current to suit electrical appliances used at home.

### DANGER (and safety)

Earth wire connected to the metal case

The earth wire carries current to the ground (literally, earth). This makes circuits safer because if there is a fault, it conducts the current to the ground rather than making the appliance 'live'. Appliances become live if the live wire touches the case. This is particularly a problem with metal-cased appliances, like cookers or toasters.



The live wire is the most dangerous one, since it is at 230 V. it should never touch the earth wire (unless the insulation is between them, of course!), because this would make a complete circuit from your mains supply to the ground (earth). A shock or fire would be highly likely.

Even if a circuit is switched off (i.e. the switch is open), the live wire can still be dangerous. If you touch it, you may complete a circuit between the live wire and the earth (because you'll be standing on the floor), so you get a shock.



#### States of matter and changes of state

Study the diagram. The particle model is used to explain differences between solids, liquids and gases, and to explain how changes from one state to another happen. Make sure you know how to draw the particles arrangement in each state, and know all the names for each state change shown on the diagram.

In a solid, the particles are fixed in position and only vibrate – they can't flow around. In a liquid, the particles are still very close together but they can flow past each other. In a gas, the particles move randomly and there is empty space between them.

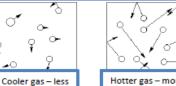
In changes of state, no new substance is produced and there is <u>no</u> change in the mass of the substance. This is because no particles are created or destroyed.

#### Density and the particle model

The particle model explains why 1 kg of a gas will have a much larger volume than 1 kg of a solid. This is because there is <u>empty space</u> between the particles in a gas, whereas in a solid, they are tightly packed together. Looking at the equation below, you should see that in this example the *m* is the same (1 kg), but the volume for the gas is much larger. Since we <u>divide</u> by volume, this must mean that the **density** of the gas is much smaller than the density of the solid.

#### Pressure in gases

Particles in a gas are constantly moving – so they store **kinetic energy**. They <u>collide</u> with the walls of their container, and exert a force when they do. The total force exerted on a certain area of the wall is the gas **pressure**.



Gas

Melting

Freezing

Liquid

Solid

Cooler gas – less Hotter gas – more kinetic energy kinetic energy

The amount of kinetic energy that the particles have is related to the temperature of the gas. The higher the temperature, the more kinetic energy they have. This means they move faster, on average. Therefore, there are more collisions with the container walls and they exert a greater force when they collide with the walls. Thus, **increasing** the <u>temperature</u> of a gas (keeping the volume the same) **increases** the <u>pressure</u> of the gas.

Key Terms	Definitions						
model	Models are used all the time in science. A model represents the real world and can explain many things about the universe. However, models are never perfect and there are limits to what they can explain. That doesn't stop them being extremely useful though!						
particle model that represents molecules or atoms a hard spheres. The important things to think about using the particle model are the <b>arrangement</b> of particles in each state of matter and the <b>kinetic</b> of the particles.							
state of matter	The physical arrangement of particles determines the state of a particular substance: solid, liquid or gas. Changing from one state of matter to another is a physical process, NOT a chemical process. No new substance is produced, and if you reverse the state change, you have a substance with exactly the same properties as the stuff you started with.						
density	The quantity that defines how much material (i.e. mass) is in a certain volume. See equation. If you have two objects the same size but different densities, the more dense object will feel heavier in your hand as there is more mass in the same volume.						
melt/freeze	The change of state from solid to liquid/liquid to solid.						
evaporate/ condense	Change of state from liquid to gas/ gas to liquid.						
boil	Like evaporation, boiling is a change of state from liquid to gas. However, boiling involves heating of the liquid so it boils, rather than particles on the surface of the liquid becoming gas (like in evaporation).						
pressure	Pressure is caused by the force exerted by particles in a gas when they hit the walls of a container.						
Equation	Meanings of terms in equation						
$\rho = \frac{m}{V}$	$ \begin{array}{l} \rho = density  (kilograms  per  metre  cubed,  kg/m^3) \\ m = mass  (kg) \\ V = volume  (metres  cubed,  m^3) \end{array} 37 $						



### Relative formula mass (M<sub>r</sub>)

This is the mass in grams of 1 mole of a substance. To calculate it you need to add up the atomic masses (bigger number) of all of the atoms in the molecule. e.g 1. NaCl = Na + Cl = 23 + 35.5 = 58.5e.g 2.  $MgF_2 = Mg + (2 \times F) = 24 + (2 \times 19) = 62$ 

### Higher tier - The Mole

A mole of an element is simply 6.02x10<sup>23</sup> atoms (this number is known as Avogadro's number). Obviously, if the atoms are larger then 1 mole of that atom will be heavier. For example, one mole of hydrogen atoms weighs 1 gram but 1 mole of carbon weighs 12 grams. To calculate the number of moles in an element you need to divide the mass by the relative atomic mass: For example, how many moles are there in 6 grams of carbon? 6/12= 0.5

To work out the number of moles in a compound you divide the mass of the compound by the relative formula mass, for example how many moles in 30 grams of magnesium oxide (MgO)? Mr of MgO=24+16= 40 Moles= 30/40=0.75

#### Higher Tier: Calculating Masses in Reactions

An understanding of the mole will allow to calculate the mass made in a chemical reaction. Take the chemical reaction below:

 $Mg + 2HCI \rightarrow MgCl_2 + H_2$ 

This equation shows that one mole of magnesium reacts with two moles of hydrochloric acid to produce one mole of magnesium chloride and one mole of hydrogen gas. Suppose you started with 5 grams of magnesium, how much magnesium chloride would you make?

Step 1: Calculate the moles of the element or compound you were given in the equation: 5/24=0.21 moles of magnesium

Step 2: Look at the balanced equation, you must therefore have 0.21 moles of magnesium chloride, as the ratio in the balanced equation between magnesium and magnesium chloride is 1 to 1.

Step 3: Calculate the M<sub>r</sub> of the relevant product: what you want to find is the M<sub>r</sub> of magnesium chloride: M<sub>r</sub> of MgCl<sub>2</sub>=24+35.5+35.5=94

Step 4: Now find the mass that will be made from that number of moles of magnesium chloride

Mass = moles x M<sub>r</sub>, so 0.21 x 94= 19.7 grams

Key Terms	Definitions				
mole	6.02x10 <sup>23</sup> atoms of an element or molecules in a compound				
Avogadro's number	6.02x10 <sup>23</sup> This is the number of atoms in 12 grams of carbon 12.				
relative formula mass	The total atomic mass of elements in compound				
limiting reagent	The reagent which is used up first in a chemical reaction.				
Equation	Meanings of terms in equation				
* $moles = \frac{mass}{M_r}$	Mass is the mass of the substance in grams $M_r$ is the relative formula mass of the compound (or use the relative atomic mass if it is an element)				

### Higher Tier - Calculating moles from masses

If you know the mass of each reactant and product you can calculate a balanced equation from the masses, for example: Calculate the balanced equation when 12 grams of magnesium reacts completely with 38.5g of HCl, to make 49.5 grams of MgCl<sub>2</sub> and 1 gram of H<sub>2</sub>

Step 1: work out the moles of each reactant and product. Mg=12/24= 0.5 HCl=38.5/38.5= 1 MgCl<sub>2</sub> =49.5/99 = 0.5 H<sub>2</sub> = 1/2 = 0.5 Step 2 divide through by the smallest number

Mg=0.5/0.5=1 HCl= 1/0.5 = 2 MgCl2 = 0.5/0.5=1 H2 = 0.5/0.5=1

Step 3 write the balanced equation:

Mg + 2HCI → MgCl<sub>2</sub> + H<sub>2</sub>

#### Higher tier - Limiting Reagent

When a chemical reaction is carried out, one or more reagents are in excess and one reagent is the limiting reagent. The **limiting** reagent is the reagent which is used up first in a chemical reaction, if all of this reagent is used up the reaction can no longer continue, for example, if a tiny amount of sodium is dropped into a large bowl of water there are a lot more water particles that there are sodium atoms. We therefore say that the sodium is the **limiting** reagent and the water is in excess.

The amount of product formed is directly proportional to the amount of limiting reagent. Therefore if you double the amount of limiting reagent you will get double the amount of product.

### YEAR 9- TRINITY TERM - PHYSICS - PARTICLE MODEL



### The Particle Model of Matter

Matter is made of particles. The particles can be arranged in different ways and move in different ways. There are three common states of matter in the world:

#### Solids:

- In solids, particles are arranged very close together because they are attracted strongly to each other.
- The particles cannot move out of their positions, BUT they do vibrate around their fixed positions.

#### Liquids:

- In liquids, particles are arranged very close together.
- However, they are not in fixed positions: particles in liquids constantly move, flowing past each other.

#### Gases:

- In gases, particles are spread apart from each other with <u>empty space</u> between them.
- Particles in gases constantly move <u>randomly</u> in all directions.

### **Changes of State**

A melting/freezing point is a particular **temperature** for each particular substance. Changes of state between solid and liquid happen at this temperature (the melting point).

- Solid → liquid is **melting**. This happens at the substance's melting point.
- Liquid → solid is **freezing**. This happens at the substance's freezing point, which is equal to its melting point.

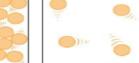
A boiling point is a particular **temperature** for each particular substance. Changes of state between liquid and gas happen at this temperature (the boiling point).

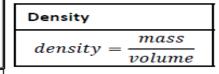
- Liquid → gas is boiling or evaporation. This happens at the substance's boiling point.
- Gas  $\rightarrow$  liquid is condensation. This happens at the substance's boiling point.

**Mass** is **conserved** during any change of state, because the number of particles remains exactly the same. Only their arrangement changes.

Key terms	Definitions
matter	Any material/substance/chemical/stuff!
state of matter	Solid, liquid or gas, depending on the arrangement of particles in matter.
particles	The tiny objects that all matter is made from. Particles are models for atoms or molecules.
conserve	Keep the same
density	A compound measure for how much mass fits into a certain unit of volume of a substance.
randomly	Unpredictably (all over the place)







2D diagrams of particle arrangements in solids, liquids and gases.

### Density

Calculating density allows comparison of different amounts of substances. It is a measure of how much stuff fits in a certain unit of volume.

Solids are denser than liquids. Liquids are denser than gases.

There is an exception: ice (solid water) is less dense than liquid water. This is unusual.

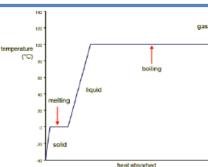
Density explains floating in liquids.

- A substances floats if it is less dense than the liquid.
- A substance sinks if it is more dense than the liquid.



#### Internal energy and the particle model

Any substance, whether solid, liquid or gas, stores energy. The particles (atoms and molecules) have <u>kinetic</u> energy (since they can move/vibrate) and <u>potential</u> energy. <u>The total of the kinetic energy</u> and the potential energy of the particles is called the internal energy.



When you heat something up, you increase the energy of the particles in the substance (or 'system'). When heating one state, you simply

increase the temperature of the substance by increasing the kinetic energy of the particles. However, when a state change is occurring, the temperature does not increase. This is because the particles are increasing in potential energy (which doesn't affect the temperature). That's why the graph above goes horizontal when the changes of state are taking place.

#### Specific heat capacity

Some substances are harder to warm up than others, and cool down less easily. The measurement of this is called **specific heat capacity**. Learn the precise definition opposite. So, when heating something, the temperature rise that will actually happen depends on the specific heat capacity (which is different with different substances) of the substance being heated, the mass of the substance and the amount of energy put in. These four quantities are linked in the equation to the right.

#### Changes of state and specific latent heat

As noted above, during heating to cause changes of state the potential energy of particles increases but the kinetic energy does not. So the temperature stays the same. The energy needed for a substance to change state is called the latent heat. The specific latent heat is specific to a substance, and is the energy required to change its state (using 1 kg of the substance), with <u>no</u> change in temperature. The energy needed for a state change depends on mass and specific latent heat of a substance – as the second equation shows.

But which change of state? We use the symbol *L* for any change of state, but call it the specific latent heat of fusion for changes from solid to liquid. We call it the specific latent heat of vaporisation for changes from liquid to gas (vapour).

Key Terms	Definitions					
internal energy	The energy stored by the particles in a system (solid, liquid or gas). Internal energy is the sum of the potential energy of particles and the kinetic energy of the particles.					
kinetic energy	The energy associated with movement. The kinetic energy of particles in any state of matter is related to the temperature of the matter.					
temperature	energy increases. <u>Note</u> : temperature does <u>not</u> measure t	A measure of the average kinetic energy of particles in a substance. As temperature increases, the average kinetic energy increases. <u>Note</u> : temperature does <u>not</u> measure the potential energy of particles, just their average kinetic energy.				
heating	Heating is one way to transfer energy from one store to another. On this page, we talk about how heating substan increases the internal energy of that substance (both the kinetic and potential energy of particles).					
specific heat capacity	The amount of energy required to raise the temperature of 1 kg of a substance by one degree Celsius.					
latent heat	Latent heat is linked to the potential energy of particles in a system – it is the energy needed for a substance to change state. It cannot be measured with a thermometer, since it is not linked to the kinetic energy of particles.					
specific latent heat	When a substance is changing state, you can keep heating it but the temperature stays the same. The energy isn't disappearing (that's impossible!), but is adding to the internal energy. <u>Specific latent heat</u> measures this: it is the amount of energy required to change the state of 1 kg of a substance (without changing the temperature at all).					
Equation	Meanings of terms in equation					
$\begin{array}{l} \Delta E \\ = m \ c \ \Delta \theta \end{array}$	$\Delta E$ = change in thermal energy (joules, J) m = mass (kg) c = specific heat capacity (joules per kilogram per degree Celsius, J/kg °C) $\Delta \theta$ = temperature change (°C)					
E = m L	E = energy (joules, J) m = mass (kg) L = specific latent heat (J/kg) 3					

### YEAR 9- TRINITY TERM - PHYSICS - PARTICLE MODEL



### Internal energy in matter

All matter stores energy. This is called internal energy and it has two parts to it:

- All matter is made of particles that are moving, so matter stores kinetic energy.
- The relative position of particles is a store of potential energy, due to the attraction between particles.

So, internal energy of a substance = kinetic energy of the particles + potential energy of the particles.

Gases have higher internal energy than liquids and solids because:

- The particles move around more: they store more kinetic energy
- The attraction between particles has been overcome and they've moved apart: this has increased the potential energy.

### Internal Energy and Changes of State

Heating a substance can do two things, but not at the same time:

- 1. Raise its temperature
- 2. Change its state from solid to liquid, or liquid to gas.

1. Temperature increases because heating increases the <u>kinetic energy</u> of particles: they move around more.

2. During changes of state, the temperature of a substance does <u>not</u> change. The heating is overcoming the attraction between particles and moving them apart (increasing the <u>potential energy</u>).

Concentration	Pressure
$concentration = \frac{mass \ of \ solute}{volume \ of \ solvent}$	$pressure = \frac{force}{area}$

Key terms	Definitions				
temperature	The measure of the average kinetic energy of particles in a substance.				
solution	A type of mixture produced by dissolving a solute in a solvent.				
solute	A substance that is dissolved in a solvent.				
solvent	The liquid that dissolves a solute to make a solution.				
Fluid	Collective term for liquids and gases (particles in fluids move around and are not in fixed positions).				
Brownian motion	The random motion of small particles in fluids due to their bumping into even smaller particles.				

#### **Concentration and Concentration Gradients**

- Concentration is the compound measure of how much solute is dissolved in a certain unit of volume of solvent.
- A difference is concentration between two solutions is called a concentration gradient. Solute particles tend to spread from higher concentration to lower concentration (down the concentration gradient), until the concentration is equal throughout the solution. This is called diffusion.
- · This can happen across cell membranes.

#### Pressure

- Pressure is a compound measure of how much force acts on a particular unit of area.
- Pressure increases if the force acting on an area increases.
- Pressure increases if the area a force acts on *decreases*.
- The deeper you go in a fluid, the greater the pressure because the column of fluid above pushes down with more force on a certain area.
- Factors that affect pressure: height in a fluid; volume of fluid; temperature of fluid; number of particles in the fluid.

## YEAR 9— TRINITY TERM - PHYSICS - PARTICLE MODEL



Measuring cylinder

Equipment List	<ul><li>brick)</li><li>measuring cylinders</li></ul>	Key Terms	Definitions
For the regular shaped solid objects: • 30 cm ruler marked off in mm • digital balance	<ul> <li>250 ml beaker of water and an extra empty beaker</li> <li>paper towels</li> <li>cotton or thin string</li> </ul>	Displacement/ Eureka can	A piece of equipment used to measure how much wat is displaced
<ul> <li>materials kits ie various regular shaped objects made o iron, copper, aluminium.</li> <li>For the irregular shaped solid objects: <ul> <li>digital balance</li> <li>displacement can and something to stand it on (eg a</li> </ul> </li> </ul>	<ul> <li>f • various irregular shaped objects</li> <li>For the liquids: <ul> <li>digital balance</li> <li>250 ml beaker</li> <li>suitable liquid eg sugar solution.</li> </ul> </li> </ul>	Diagram Displaceme	nt can
Method For regular solids 1. Measure the length, width and height of each or columns for volume, mass, density and substan 2. Measure the mass of each object using the digit			

- Calculate and record the volumes (length x width x height).
- 4. Calculate and record the densities (mass + volume).

#### For irregular objects (see diagram)

- 1. Place a displacement can on a brick. Put an empty beaker under the spout and fill the can with water. Water should be dripping from the spout.
- When the water has stopped dripping, place a measuring cylinder under the spout. Choose the measuring cylinder you think will give the most precise reading. 2.
- Tie the object to a piece of cotton and very carefully lower it into the displacement can so that it is completely submerged. Collect all of the water that comes out of the spout in the measuring cylinder.
- Measure and record the volume of the collected water; this is equal to the volume of the object.
- Calculate and record the density of the object. Try to find out what substance it is made from. Repeat for some of the other objects. Remember to refill the can each time. 5.
- 6.

#### For liquids:

- 1. Measure the mass of the empty beaker.
- Record your results in a table. Your table will also need columns for the mass of the beaker with the 2. liquid in, the mass of the liquid, the volume of the liquid and the density.
- Pour about 100 ml of liquid into the measuring cylinder. Measure and record the volume. Pour this liquid into the beaker. Measure and record the mass of the beaker and liquid. 3.
- 4.
- Calculate and record the volume of the liquid. 5.
- Calculate the density of the liquid. 6.
- The density of water is 1 g/cm<sup>3</sup>. Determine the mass of sugar per cm<sup>3</sup> dissolved in the water, assuming the sugar does not affect the volume of the water.

### **Expected Results**

In solids, metals should have the highest density. Which should be in the order of 1000 kg/m<sup>3</sup>

#### Increasing accuracy

Vernier callipers can be used to measure lengths to a very high degree of accuracy.

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Balances that have a high resolution.

Using a burette to measure volume to a higher resolution.

#### Sources of Error

Balance not reading 0 when substances are being weighed. Water lost on side of can/spout in displacement can.

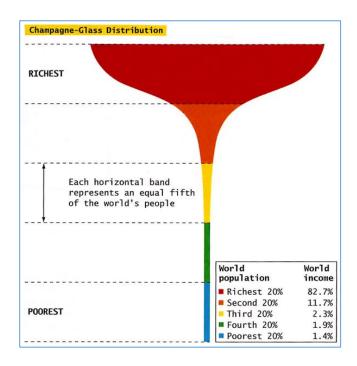
# YEAR 9— TRINITY TERM - GEOGRAPHY — DEVELOPMENT DYNAMICS AND CHALLENGES OF AN URBANISING WORLD

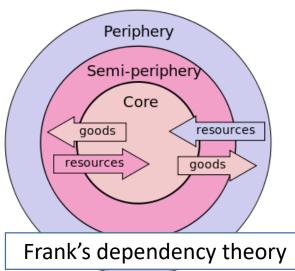


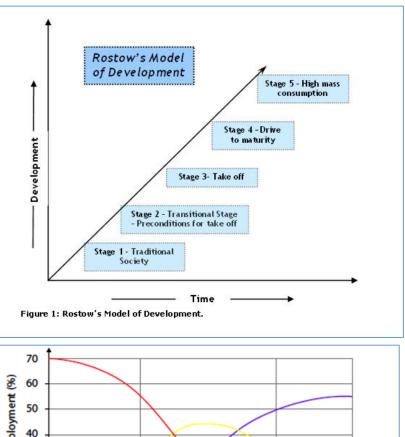
Number	Key term	Definition	Number	Key term	Definition
1	Urbanisation	A rise in the percentage of people living in urban areas, compared to rural areas.	11	Informal economy	An unofficial economy, where no records are kept. People have no contracts or employment rights
2	Conurbation	The merging of towns and cities to form one large city.	12	Formal economy	One which is official, meets legal standards for accounts, taxes and workers' pay and conditions.
3	World cities	Megacities that play a disproportionally large role in world affairs.	13	Ethnic enclaves	Areas where people of similar ethnic background live together.
4	Urban Primacy	A city that has more importance and influence bigger than its size.	14	Counter- urbanization	Movement of people away from the city.
5	Net Growth	The number of people left after	15	Re-urbanization	Movement of people back into the city.
		subtracting those leaving from those arriving	16	Regeneration	The redeveloping of former industrial areas or housing to improve them.
6	Decentralisat ion	Closure of industries.	17	Brownfield	Sites are former industrial areas that have been developed before.
7	Internal Migration	Movement within a country.	18	Megacity	A city with a population of 10 million or above.
8	Rural-urban	Movement of people from the	19	CBD	Central business district
Ŭ	MigrationMovement of people from theMigrationcountryside to towns and cities.		20	Chawls	Low quality multi-story buildings.
9	Knowledge economy	Working in industries that supply expertise/research and development.	21	Informal housing	Illegal settlements ie. slums/squatter settlements.
10	International migration.	Moving from one country to another.	22	Spatial	Relates to space eg the spatial growth of a city.

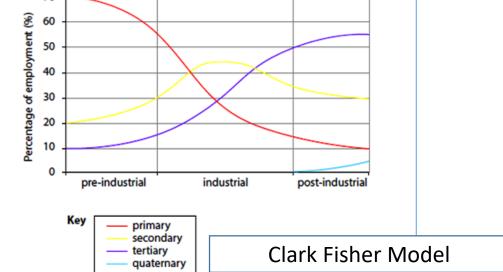
### <u>YEAR 9— TRINITY TERM - GEOGRAPHY — DEVELOPMENT DYNAMICS</u>











# YEAR 9— TRINITY TERM - HISTORY — PAPER 1- C.1700-C.1900: INDUSTRIAL AGE ENGLAND



C18th and C19th Crime and Punishment			Key Words			
1	This period saw rapid population growth and increased urbanisation meant more	29	Smugglers	People who brought goods into the country and sold them on, without paying duties.		
	opportunities for crime. There was significant poverty in the cities and enforcing crime	-				
	became more problematic. There was a change in attitudes too – prisons were for	30	Hawkhurst Gang	A large smuggler gang which operated in the South East of England from 1735 to 1749.		
	reforming criminals and not just punishing them. Important individuals in this time	31	William Pitt	Prime Minister who lowered import duties and who helped to reduce smuggling.		
	included John Howard, a prison reformer, and Robert Peel, the founder of the	22	Highway Robbery	Threatening and attacking travellers and forcing them to hand over valuable		
	Metropolitan Police.	32	Tigiway Kobbery	possessions.		
Key eve	nts	33	Turnpikes	Roads with a toll gate.		
2	<b>1690</b> – Excise duty extended to salt, leather and soap and mounted customs officers	34	Jack Shepherd/ Dick Turpin	Famous highwaymen.		
	introduced.	35	Tolpuddle Martyrs	Men from the village of Tolpuddle in Dorset who formed an early trade union.		
3	1716 – Last known execution for witchcraft.	26	A a who we	A server when suffers for the interior and offers is admissed for it.		
4	1723 – Black Act makes poaching game or damaging forest a capital crime.	36 37	Martyr George Loveless	A person who suffers for their beliefs, and often is admired for it. Leader of the Tolpuddle Martyrs.		
5	1735 – Witchcraft Act decriminalised witchcraft.	37	Trade Union	An organisation that represents workers to protect their rights.		
6	1748 – Fielding brothers set up the Bow Street Runners.	39	Transportation	Criminals were sent to America and later Australia as punishment for their crimes.		
7	1778 – Transportation to Australia introduced.	33		enninais were sent to vintened and later viasitalia as parisimient for alen ennies.		
8	1789 – French Revolution.	40	Home Secretary	The government minister with responsibility for law and order.		
9	1810- 222 crimes are capital offences.					
10	1816- The first national prison opens at Millbank, London to hold convicts awaiting	41	Hulk Inhumane	Disused ships used as floating prisons just offshore. Cruel, without compassion.		
	transportation.	42		cruer, without compassion.		
11	1823 – Black Act repealed.	43	The Tyburn Tree	The most famous place for public executions. The tree could hang 24 people at once.		
12	1829- Metropolitan Police Act					
13	1832 – 60 crimes are capital offences.	44	Tread wheel	A common form of hard labour where the prisoner walked up the wheel for 10 minutes		
14	1835 – Gaols Act introduces inspection of prisons.	45	John Howard	at a time with a 5 minute break before the next stint. Campaigner for prison reform.		
15	1842 – Pentonville prison set up on the site of old Millbank prison.	45	John Howard			
16	1850 – Import taxes cut and large scale smuggling reduced.	46	Elizabeth Fry	Campaigner for prison reform.		
17	1856 – Police Act makes it compulsory for all towns and counties to set up a police force.					
18	1868 – Public execution ended.	47	Humanitarianism	A school of thinking based on the principle that all humans are equal and inhumane		
19	1869 – National Crime Records established.	48	Bow Street Runners	treatment of other human beings should be challenged. A crime fighting team, established in London, in 1748, by the Chief Magistrate, Henry		
20	<b>1877</b> – All prisons are brought under government authority.	40	bow Street Ruimers	Fielding. By 1785, they were officially paid by the government.		
21	1878 – Criminal Investigations Department set up.					
22	<b>1898</b> – Prison Act emphasises rehabilitation and reform of prisoners.	49	Metropolitan Police Act	Gave London a uniformed police force. Set up by Home Secretary, Robert Peel.		
23	<b>1902</b> – Holloway Prison for women opens/ first conviction in court using fingerprint	50	Prototype	A new idea or design that is tried out before more versions are made.		
	evidence.	50	literation	A new idea of design that is they out before more versions are made.		
Key Cor	· ·	51	Separate system	Prisoners were kept apart as much as possible.		
24	Smuggling and highway robbery became less common in the C19th.					
25	There were increasingly bareh and unnerviar laws against peophing but they were	52	Pentonville Prison	Designed as a model prison by Joshua Jebb.		
25	There were increasingly harsh and unpopular laws against poaching but they were repealed in the 1820's.	53	Psychosis	A confused state where sufferers have hallucinations and delusions – seeing and		
		55		imagining things that are not really there.		
26	The <b>growth of the prison system</b> meant that an alternative punishment to transportation was available.	54	Hard labour, hard fare and hard board	Physically demanding work, boring and bland diet and wooden board beds.		
27	Early C18th law enforcement continued to use similar methods to the early modern period	55	Robert Peel	Home Secretary responsible for bringing in a wide range of changes to criminal law and		
	but the establishment of the Bow Street Runners was a very important development in			for reforming prisons. Some historians call him the 'father of modern policing'.		
	policing that laid the foundations for the Metropolitan Police Act.	56	Penal	Involving nunichmonts		
28	The government was concerned with punishing wrongdoing and deterring others from	50		Involving punishments.		
	crime by ensuring conditions were sufficiently harsh.		1	22		

# <u>YEAR 9— TRINITY TERM - HISTORY — PAPER 1- C.1900-PRESENT: MODERN ENGLAND</u>



Crime and Punishment from 1900 to the Present		Key Words			
		25	Homosexuality	Sam sex relationships were decriminalised in 1967.	
1	The role of the government in people's lives grew as did the	26	Sexual Revolution	Growing liberal attitudes towards sex in the 1960's.	
	role of the state in enforcing the law. Social attitudes	27	The Crime	A crime motivated by prejudice against the victim's race, gender, disability or sexual orientation.	
	changes which led to some activities being decriminalised	28	Homophobic	Prejudice against people who are gay.	
	while others were made illegal for the first time.	29	Multicultural	Lots of different nationalities living in an area/country.	
	Development in science and technology and better methods	30	Injunction	An order issued by a court to forbid a particular action or behaviour. An injunction can include instructions to stay away	
	of communication led to advances in crime prevention and		,	from a person or a place.	
	detection. There has been changing attitudes about the	31	Coercive behaviour	Using force or threats towards a partner.	
	rehabilitation of offenders.	32	Abortion	To end a pregnancy.	
Kova	events	33	Social crimes	Crimes in society that many accept to a degree e.g. tax evasion, copyright.	
<b>кеу</b> е	<b>1901</b> – Fingerprint Branch is set up at New Scotland Yard.	34	Terrorism	The use of violence, fear and intimidation to publicise a political cause.	
_	<b>3</b> · · · ·	35	IRA	Irish Republic Army – wanted political independence from the rest of the UK.	
3	<b>1916</b> - Conscription introduced.	36	Al-Qaeda and Isis	Islamic Fundamentalist Terrorist Organisations.	
4	1920's – women recruited into police force.	37	People Trafficking	People from poorer countries being brought to the UK and forced to work for very low wages or no wages.	
5	<b>1950</b> - Death penalty for Timothy Evans who was hanged for	38	Cybercrime	This is any crime that is carried out using the internet and other digital technologies.	
	murdering his wife and baby. This was a miscarriage of	39	Fraud	Impersonating other people or businesses to make money illegally.	
6	justice. <b>1953</b> - Death penalty for Dreck Bentley. Hanged for the	40	Copyright	This is the right of an artist or company to be recognised and aid as the creator of their work.	
Ď	<b>1953</b> - Death penalty for Dreck Bentley. Hanged for the murder of a police officer. He had not fired the gun himself,	41	Extortion	Making people pay money by using threats or blackmail.	
	had learning difficulties and a low mental age.	42	Biometric Testing	His uses unique body characteristics like fingerprints or eye patterns to restrict access to date, places an buildings.	
7	<b>1955</b> – Death penalty for Ruth Ellis. Hanged for the murder	43	Neighbourhood Watch	A local committee of people who raise awareness about crime and encourage neighbours to keep an eye on each	
l i	of her violent and abusive boyfriend.			others' property.	
8	<b>1965</b> – Death penalty abolished for most crimes.	44	Police Community	Work with police officers and have some, but not all, of their responsibilities.	
9	1967 – Sexual Offences Act		Support Officer		
10	<b>1968</b> – Abortion Act and Race Relations Act	45	Vigilance	To keep a watchful eye for danger.	
10	1976 – Domestic Violence Act	46	Active citizenship	People taking an active role in their community in order to improve it.	
11	<b>1980</b> – Police National Computer is launched.	47	Abolished	Banned or made illegal.	
	<b>1990</b> – Police National Computer is launched. <b>1991</b> – Law recognises rape within marriage as a crime.	48 49	Liberal	Open to new ideas.	
13		49	Age of criminal	The age at which a person is judged to be mature enough to understand their actions. A person who has reached the age of criminal responsibility can be prosecuted and punished for their crimes.	
14	<b>1995</b> – National Automatic Fingerprint Identification System and National DNA Database set up.	50	responsibility Borstal	A prison for boys only.	
15	<b>1998</b> - Death penalty abolished for all crimes.	50	Electronic Tagging	The court orders a person convicted of a crime to wear an electronic tag to monitor their movements.	
-		52	Anti-Social Behaviour	A court places restrictions on what a person can do.	
16 17	<b>2000</b> - Terrorism Act <b>2005</b> – Criminal Justice Act raises severity of 'hate crimes'.		Order		
17	<b>2005</b> – Criminal Justice Act raises severity of 'hate crimes'. <b>2006</b> – Racial and Religious Hatred Act	53	Community service	People convicted of minor offences are ordered to do supervised work to improve their local community.	
18	2006 – Racial and Religious Hatred Act 2015- Modern Slavery Act	54			
	Concepts	-	Restorative justice	A criminal meets the victim of their crime to talk about what they have done and the impact it has had on others.	
20	Changing social attitudes cause changes in the law.	55	Conscription	Compulsive military service.	
20	New technologies create new crimes.	56	Conscientious Objectors	Men who refused to fight.	
21	Important developments in modern policing include	57	Pacifists/ absolutists	People who believe that fighting is wrong.	
22	increased use of science and technology, more emphasis on	58	Auxiliary work	Support work	
	crime prevention and increasing co-operation and co-	59	White feather	A symbol of cowardice.	
	ordination at national level.	60	Propaganda	Deliberate mass persuasion.	
23	In the C20th, there has been increasing specialisation in	61	Peace Pledge Union	An organisation founded in the 1930's that opposed was and sought to find peaceful means to resolve conflicts around	
	policing.			the world.	
		62	Pardon	To let a person off the punishment after they have been convicted of a crime.	
24	During the C20th, there has been <b>changing attitudes about</b>	63	Joint enterprise	When an accomplice to a crime is held jointly responsible for the crime. Christopher Craig was the accomplice of Derek	
2 <sup>4</sup>	the purpose of prisons and types of punishments and the		L	Bentley but he couldn't be hanged as he was 16.	
	death penalty has been abolished.	64	Diminished responsibility	Not being fully in control of your actions, for example, because of mental illness. 23	
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# YEAR 9— TRINITY TERM - HISTORY — PAPER 1- HISTORIC ENVIRONMENT - WHITECHAPEL



		Key Words			
Whitechapel		19	Whitechapel	A district in the East End of London. Ruled by gangs. Immigrant area. High levels of homelessness, poverty and crime.	
1	The lives of inhabitants of Whitechapel were tough and the	20	Workhouse/ doss	Offered a bed and food in return for hard labour.	
	policing of such an area was difficult too.		house		
Key events		21	Residuum	A criminal underclass born to steal, lie and rob.	
2	1829 – Founding of the Metropolitan Police.	22	Charles Booth	Shipping owner and led investigations into poverty	
3	1840's – Irish immigration to the East End	23	H Division of the	Had to investigate crime in Whitechapel	
4	1842 – A detective Department added to the MET.		Metropolitan Police		
5	1878 – A CID Department set up.	24	Home Secretary	Based in Westminster. He had little control over local police forces outside of London but the Metropolitan Police reported directly to him.	
6	<b>1873</b> - Great Depression – brought widespread unemployment and poverty.	25	Watch Committee	A group of local politicians or law professionals set up to monitor the work of police forces.	
7	1875 – Artisan's Dwelling Act; a slum clearance programme.	26	Manpower	There were only 13.319 men in the MET in a population of just over 5 million. Only 1,383 were available for duty at any one time.	
0	Peabody Estate opened in 1881. <b>1880's</b> – A wave of Russian immigration as a Jew was blamed for	28	Penny Dreadful	A Victorian tabloid.	
0	the assassination of Tsar Alexander II.	29	Sir Charles Warren	Metropolitan Police Commissioner from 1886. `	
9	<b>1885</b> – Dynamite Saturday – When the Fenians (Irish Nationalists) launched attacks on central London landmarks.	30	Metropolitan Police	Investigated crime in London and was controlled directly by the government. Did not patrol the City of London which had its own police force.	
10	<b>1887</b> – 'Bloody Sunday' when the Metropolitan Police attempted	31	Sanitation	Conditions associated with public health, such as running water and sewerage systems.	
	to stop a demonstration in Trafalgar Square.	32	Pollution	Wind carried smoke and stinking gas fumes through the maze like streets of the East End.	
11	<b>1888</b> – Serial murders of Jack the Ripper.	33	Rookeries	Overcrowded slum areas characterised by dirt, disease and crime.	
		34	Lodging house	Squalid accommodation which was rented for 8 hour sleeping shifts a day.	
12	1890 – The Houses of the Working Classes Act opened the way for	35	Barnado's	An attempt to prevent young people from going into the workhouse. It's motto was 'No Destitute Child Ever Refused Admission'.	
	the new London County Council to begin housing development	36	Navvies	Men who did labouring jobs on canals, roads, railways and as dockers.	
	schemes to replace slums with mass low cost housing. The Public Health Amendment Act - gave more powers to local	37	Special Branch	Designed to counter Irish terrorism and protect London from an Irish nationalist group called the Fenians.	
	councils to improve toilets, paving, rubbish collection and other	38	Pogroms	A Russian word describing a government supported attack on the Jews.	
	sanitary services.	39	Anarchy	A political movement that opposes all forms of organised government. Mikhail Bukanin was the leading anarchist of the time. Associated with Eastern	
Key (	Concepts			Europeans.	
13	Living conditions – The poor of Whitechapel were herded	40	Socialist	Someone who believes that poor people would get a better deal if the government nationalised (took over) important industries and services and ran them for	
	together in noisy and filthy courts. Prostitution, unemployment			the good of all – not for profit.	
	and poverty were common place.	41	Capitalist	Someone who believes individuals should be free to own property and businesses and make a profit.	
14	Statistics – These can present historians with numerous problems.	42	Blacklegging	Working during strikes.	
15	Anti Police feeling – There was a feeling that the police favoured	43	Anti-semitism	Hatred against Jews.	
13	the middle and upper classes against the poor. Also police were	44	Sensationalist	Describing events in a deliberately exaggerated style to shock and impress.	
	expected to manage a variety of tasks that could be termed social	45	Satirical	Using humour or exaggeration to mock current affairs.	
		46	Stereotyping	Assuming all members of a group are alike – for example, looking similar, or having similar views.	
10	work tasks.	47	Beat	The area the policeman is to patrol.	
16	Attempts to improve living conditions - Peabody Estate and	48	Prostitute	A person who offers sexual activity in return for a payment.	
	Barnado's.	49	Brothel	A house where one or more prostitutes work.	
17	Anti Jewish feeling – By 1888, the Jewish population of parts of	50	Gin palace	Extravagant, richly decorated gas lit shop selling gin across the counter. Gin was a cheaply available, potent alcohol, popular with the poor. The light and	
-´´	Whitechapel had grown to 95% of the total. Jewish settlers were			splendour made a stark contract with the dark, dirty streets.	
	resented as they tended to find work quickly, they would accept	51	Opium den	A place where the drug opium was sold and smoked. Despite the name, the places could vary in appearance from an elegant bar room to a dark cellar.	
	lower wages, they ran tailoring businesses on the sweatshop	52	Protection rackets	Gangs like the Bessarabian Tigers and the Odessians demanded protection money from small business owners.	
	model, they worked Sundays and the religious and cultural rules	53	Frederick Abberline	Inspector who led the investigation into the Ripper murders.	
	about food and clothing made them stand out.	54	Lunatic asylum	The Victorian term for a psychiatric hospital.	
18	Jack the Ripper – The murderer of 5 prostitutes (Mary Ann Nichols,	55	Alibi	Proof that an accused person was in some other place at the time a crime was committed.	
10	Annie Chapman, Elizabeth Stride, Catherine Eddowes, and Mary	56	Post mortem	A detailed examination of a person's body to try and discover the cause of death.	
	Jane Kelly) in the Whitechapel area in 1888 was known by this	57 58	Dissecting	Cutting an animal or human body into parts, usually as part of a scientific investigation.	
	name. The cases highlighted the challenges and inadequacy of the		Forensic	Using scientific methods and techniques to investigate crime.	
			Bertillon system	Combined physical measurements, photography and record keeping to identify repeat criminals.	
	existing police force and shone a spotlight on the troubled area of Whitechapel.	60	Mug Shot	A head and shoulders photograph, typically taken of a person after arrest.	
	·····cestapet	61	Whitechapel Vigilance	Set up by businessmen due to the police's lack of progress in catching Jack the Ripper.	
			Committee	2	

# YEAR 9- TRINITY TERM - RELIGIOUS STUDIES- CHRISTIAN PRACTICES



	Key Ideas				
Worship + Prayer	Liturgical Worship - This form of worship takes place in a church and is led by a priest - Formal, set prayers are read out - A more traditional, and formal form of worship Non-liturgical Worship	Prayer - Prayer means communicating with God, either silently or out loud, sometimes through song - It is one of the most important parts of the spiritual life of a Christian and enables them to have a personal relationship with God - Intercessions are prayers made on behalf of others - Thanksgiving is when people pray to say thank you			
	<ul> <li>Also takes place in a church but less formal</li> <li>No set prayers, instead people take turns to preach and read from the Bible</li> <li>Can be modern and appealing to young people</li> </ul>	Thanksgring is when people pray to say thank you to God     Set prayers are written down and used in liturgical worship     Informal prayer is off-the-cuff and often used in non-liturgical worship			
Eucharist + Baptism	Eucharist - Eucharist and baptism are both sacraments meaning special occasions in a Christian's life - In Eucharist a priest consecrates (blesses) bread and wine and the congregation then receives these - Catholics believe the Holy Spirit transforms the bread and wine into Jesus' body and blood	Infant Baptism - This is a formal service welcoming a new child into the Christian church - Holy water is sprinkled over the baby's head - All Catholics baptise their children close to birth in order to ensure they go to heaven			
	<ul> <li>Anglicans believe the bread and wine are symbolic</li> <li>Christians take part in this ritual in order to remember the sacrifice Jesus Christ made for them by being crucified on the cross</li> <li>"For whenever you eat this bread and drink this cup, you proclaim the Lord's death until he comes" - 1 Corinthians 11:26</li> </ul>	Believer's Baptism - A believer's baptism welcomes someone into the church who is old enough to decide themselves - They are submerged in a pool of holy water - They make promises to stay away from evil - Baptists only practice this type of baptism			
Pilgrimage + Festivals	Pilgrimage - A pilgrimage is a journey made by a Christian to a holy site - Catholics go on pilgrimage to Lourdes where a vision of Mary was once seen, they believe the water there has healing effects	<u>Christmas</u> - Christmas celebrates the incarnation (birth) of Jesus Christ - Christians give gifts to commemorate the gift of God sending his own son to the world			
<b>₩</b>		Easter - Easter celebrates the resurrection of Jesus Christ - Christians celebrate by saying "he is risen" and by eating chocolate eggs that represent new life			
Evangelism + Church in the Community	Christians have a duty to evangelise (tell others of the word of God). An example is the Alpha Course which is an educational course that tells people more about the life of Jesus.	Christians also have a duty to help others in the local community. Two examples of this are Street Pastors who help drunk people at night and Food Banks that provide food to people in poverty.			
Reconciliation	<ul> <li>Christians across the world play an important role in reconciliation (seeking to restore friendly relations after a conflict or falling out)</li> <li>An example is Coventry Cathedral which was bombed during World War II but now seeks to create peace and reconciliation elsewhere in the world. The World Council of Churches also works to help after conflict.</li> <li>In some places Christians face persecution where they are treated badly for their faith. Churches around the world work together to try and overcome this.</li> </ul>				

	Key Words
Believer's Baptism	Service where those old enough to decide for themselves are welcomed into the church
Christmas	Christian festival which celebrates the incarnation (birth) of Christ
Consecration	When a priest blesses bread and wine in order to use it for Eucharist
Easter	Christian festival which celebrates the resurrection of Christ
Eucharist	Service where bread and wine is received by Christians to remember Jesus' sacrifice
Evangelism	Spreading the word of God through action or speech
Infant Baptism	Service where babies are welcomed into the church with holy water
Liturgical Worship	Formal worship with set prayers, hymns and Bible readings
Mission	The calling to spread the word of God and evangelise
Non-liturgical worship	Worship with no set pattern, may have modern music and sermons
Persecution	Hostility and ill-treatment of a group of people
Pilgrimage	Going on a journey to visit a holy site
Prayer	A communication with God, can be private or during worship
Reconciliation	Restoring friendly relations after a conflict or falling out <b>2</b>

## YEAR 9- TRINITY TERM - RELIGIOUS STUDIES- ISLAMIC BELIEFS

#### 5. Prophethood

- ✓ God has chosen people to bring the message of Islam to the people. These chosen people are called prophets.
- They are important because they provide communication between God and humans.
- ✓ In order for humans to live how God wants it is necessary for instructions to be delivered through prophets
- ✓ Around 124,000 prophets of which 25 are named in the Qur'an
- They are important role models as they were good people who lived according to God's will.

#### 'Every community is sent a messenger'. Quran 10:47

Adam:

- ✓ First man on earth and first prophet of Islam
- ✓ Father of the human race so treated with great respect
- ✓ God created Hawwa (Eve) to stop Adam being lonely
- They were told not to eat from the tree in the middle of the garden but they did and so sin entered the world.
- Adam is important as God gave him understanding which he passed on through his descendants. God revealed to him the foods they can eat, how to repent for wrong doing and how to bury the dead.

#### 'He taught Adam the names [of things]'. Quran 2:31

#### Ibrahim:

- ✓ Fulfilled all the tests and commands God gave him.
- Was promised to be the father of all nations.
- Demanded people to stop idol worship. Was supposed to be burnt alive but survived (miracle) so people began to follow God.
- Re-built the Ka'aba after it was destroyed.
- ✓ Important as he stopped idol worship, gave the message of one God and rebuilt the Ka'aba

#### 'God took Abraham as a friend'. Qur'an 4:125

### 8. Holy Book - The Quran:

- The Qur'an is the direct word of God, which was revealed to Muhammad over a period of around 22 years.
- Contains the foundation of every believer's faith.
- Is most sacred of all the holy books.
- Is infallible (without error and non-changing)
- Contains a mixture of historical accounts and advice on how to follow God.
- There are 114 surahs (chapters) in total.
- Those who can recite the Qur'an from memory are given the title 'Hafiz'.

<u>'This is the Scripture in which there is no doubt, containing guidance</u> for those who are mindful of God'. Qur'an 2:2

### 3. Angels

Muslims believe angels bring the words of God to the prophets. They have no free will and are made from elements of light. Their roles are:

- Messengers
- Guardians of people
- Recording actions of humans
- An angel of death
- Purify hearts
- Bring natural disasters

### <u>'Jibril:</u>

- Archangel
- Relayed the Qur'an to Muhammad
- Guided Muhammad through his entire life
- Mika'il:
- Archangel
- Angel of Mercy
- Responsible for sending rain, thunder and lightning

### 1. <u>The Oneness of God</u>

- One of the most important beliefs for Muslims is Tawhid (the belief that there is only one God).
- This belief is repeated daily in the Shahadah (one of the five pillars).
- A Muslim's most important duty is to declare faith in one God.
- God is unique. No one can picture God which is why there isn't any pictures or statues of Him in Islam.
- God is the only creator and controller of everything.
- Muslims believe they should accept whatever happens as the will of God (supremacy of God's will)

### <u>'Say, He is God the One, God the eternal'.</u> Quran 112:1-4

EARNING - LOVING - LIVING

### 4. Life after death

-Death isn't the end it is a new stage of life called Akhirah. -After death you lie in the grave waiting for the day of Judgment this is called Barzakh.

-Angels are sent to question them about their life. If they are good and honest they will be rewarded if they are bad an untruthful they will be punished.

### The Day of Judgement

- ✓ When God's purpose for the world has been fulfilled He will destroy it
- ✓ The world will be transformed into a new world
- ✓ Everyone who has ever lived will be resurrected and judged by God.
- ✓ If people are given the book of deeds in their right hands they will go to heaven, if it is in their left they will go to hell.

### Heaven and Hell

### Heaven:

- Described as the gardens of happiness
- It is a reward for faith and good deeds

#### 'A reward for what they used to do'. Quran 56:24 Hell:

- Described as a place of fire and great torment
- Punishment for those who reject God and do evil

### They will dwell amid scorching wind and scalding water in the

shadow of black smoke, neither cool nor refreshing'. Quran 56:42-

<u>44</u>

### 2. Nature of Allah

Muslims believe God is:

- -Immanent (present in earth and involved with humanity)
- -Transcendent (outside life and beyond understanding)

-Omnipotent (all-powerful)

- -Beneficent (all-loving and all-good)
- -Merciful (compassionate and forgiving)
- -Just (fair and judges humans actions)

<u>'There is no God but Him, the Creator of all things'. Qur'an 6:102</u> 'He is with you wherever you are'. Qur'an 57:4

## YEAR 9- TRINITY TERM - RELIGIOUS STUDIES- ISLAMIC BELIEFS

### 6. Predestination

#### <u>Sunni:</u>

- Believe God has already determined everything that will happen in the universe.
- Linked to Sunni belief of the supremacy of God's will.
- Doesn't mean that people have no choice about how they behave.

### <u>'Only what God has decreed will happen to us'. Qur'an 9:51</u>

### <u>Shi'a:</u>

- Believe that God knows everything that is going to happen, but does not decide what is going to happen.
- Shi'a Muslims do not see conflict between supremacy of God's will and human freed to act freely and make choices as God knows what you will choose but does not choose for you.

### <u>'God does not change the condition of a people [for the worse0 unless</u> they change what is in themselves'. Qur'an 13:11

### 7. Muhammad

- Muhammad received the final revelation of Islam from God.
- Known as the last and greatest prophet.
- Religious from an early age and would go into the mountains to a cave to pray and meditate.
- In 610CE on Mount Hira received his first revelation from God through the angel Jibril.
- For more than 20 years received further revelations, which were combined together to make the Qur'an.
- 3 years after the first revelation began preaching the words he received and continued to do it for the rest of his life.
- He challenged the people of Makkah to give up their sinful ways (cheating, drinking, gambling and idol worshipping).
- Was persecuted by the leaders of Makkah and so fled from the city in 622CE. This is known as the Hijrah (departure) and marks the beginning of the Ummah (worldwide community).
- Before the departure Muhammad was taken on an amazing experience where Jibril took him to Jerusalem. Muhammad was carried on a horse like creature with wings. From Jerusalem he ascended to heaven and saw signs of Gods and spoke to prophets such a Isa. This is where he was told to pray 5 times a day. This journey is known as the **Night** Journey.
- 'Muhammad is not the father of any one of you men; he is God's Messenger and the seal of prophets: God knows everything'. Qur'an 33:40

# EARNING — LOVING — LIVING

### 10. The Imamate

- When Muhammad died it wasn't clear who should succeed him.
- Muslims split in to two groups <u>Sunni</u> and Shi'a.
- <u>Sunni's</u> elected Abu Bakr as their first Caliph (leader, teacher).
- <u>Shi'a</u> believe that Muhammad named his cousin Ali as his successor so he became the first Imam.
- For Shi'as it was important that Ali took control because they believe that Muhammad appointed him under divine instruction and leadership should follow in the family line.
- When Ali died his son became the Imam. Each Imam that followed was the son of the previous Imam.
- The <u>Twelver Branch of Shi'a Islam</u> believe that there have been twelve Imams in total. The last one they believe has been kept alive by God and is hidden somewhere on earth who will return to bring peace, justice and equality.
- The <u>Twelver's</u> believe that the Imams not only rule but are able to interpret the Qur'an and Shari'ah Law
- They believe that the receiving of God's law was through Muhammad but guiding people comes through the Imams.
- <u>The Imamate</u> is the name given to the appointment of the Imams and is important because people need divine guidance to know how to live correctly.

### 9. Sunni and Shi'a Islam

### <u>Sunni:</u>

- When Muhammad died the majority of Muslims thought that <u>only</u> the Qur'an and Sunnah had the authority to guide the beliefs and behaviour of Muslims.
- They elected Caliphs to act on behalf of God and Muhammad. They do not make the laws; they just enforce them.
- These Muslims became known as Sunni (meaning followers of the Sunnah).

### <u>Shi'a:</u>

- Another group believed that Muhammad named his cousin Ali as his successor.
- Ali and his supporters thought that the true leader had to be a descendent of Muhammad and chosen by God.
- Ali's claims to be leader were ignored by many Muslims.
- Over time a split developed between those who followed Ali (the Shi'as) and the Sunnis.
- Shi'as have their own interpretations of the Law and only accept sayings of Muhammad which have been passed down through Ali or his followers.

### Six Articles of Faith in Sunni Islam:

- There is only one God Allah.
- Angels communicate the message of God to humans.
- The Qur'an is the most important writing and the highest authority in Islam.
- Muhammad is the most important prophet of God.
- The Day of Judgement is when all humanity will be judged by God and sent to paradise or hell.
- The supremacy of God's will means that God already know but also makes happen everything that occurs in the world and in human lives.

### The Five Roots of 'Usul ad-Din' in Shi'a Islam:

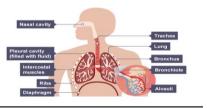
- 1. Tawhid means that God is one.
- 2. Prophethood means accepting that Muhammad is God's last prophet.
- 3. God is just and wise and cannot do wrong. He holds humans accountable for their actions.
- 4. The Imamate means accepting that twelve Imams are the leader of Islam and guard the truth of the religion without error.
- 5. After death you will be resurrected and judged by God.

27



### What is respiration?

- When we breathe in, air moves from mouth and nose down into the trachea.
- The trachea carries air from the throat to the lungs
- The inner surface of the trachea is covered in tiny hairs called cilia, which catch particles of dust, which are then removed when coughing.
- The trachea divides into two tubes called bronchi, one entering the left lung and the other entering the right lung.
- Once inside the lung the bronchi splits several ways, forming smaller and smaller bronchi.
- The small bronchi then divide into bronchioles which are tiny (diameter of less than 1mm).
- At the end of the bronchioles are the openings to the alveoli.



- There are usually several alveoli coming from one bronchiole, forming a clump which often looks like a bunch of grapes.
- The function of the alveoli is the exchange of gases.
- Capillaries that carry the blood surround the alveoli.
- The exchange of oxygen from the lungs into the blood and the exchange of carbon dioxide in the blood from these capillaries occur through the walls of the alveoli.

### **Breathing Mechanism**

Breathing is a two way process – inspiration and expiration.

**Inspiration** – inhaling/intake of air into the lungs which <u>increases</u> the volume of the chest cavity (chest puffs out!)

**Expiration** – exhale/expulsion of air from the lungs <u>decreasing</u> volume of chest cavity.

Both inspiration and expiration use the *diaphragm* and *intercostal muscles*. When the muscles contract they cause the cavity to increase in size and therefore in volume.

### Inspiration

During inspiration – the breathing muscles contract

Contraction of the **<u>diaphragm</u>** causes it to flatten which makes the chest cavity bigger.

Contraction of the **intercostal muscles** causes the ribs to rise, thus also increasing size of chest cavity.

When the chest expands, its volume increases, reducing the pressure in the chest and air is drawn into the lungs.

Air goes from high pressure outside body, to low pressure inside lungs. **Exspiration** 

During expiration- the breathing muscles relax

The diaphragm curves and returns to its dome shape.

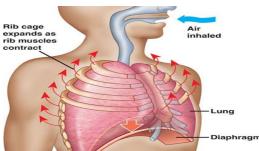
The weight of the ribs causes them to go back to where they were and this reduces the volume in the chest.

Reduction of the chest cavity increases the pressure of the air in the lungs and causes is to exhale.

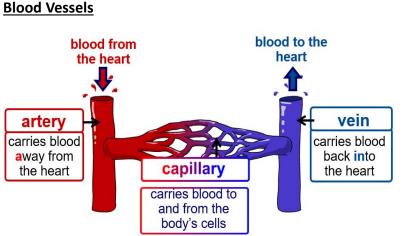
The breathing muscles then relax.

### <u>Keywords:</u>

Diaphragm	Increase
Intercostal muscles	Decrease
Relax	Ribs
Contract	Pressure
Volume	







### Function of the Artery

- Arteries carry OXYGENATED blood AWAY from the heart.
- Blood in artery is under the highest pressure
- They have **muscular walls** that can **adjust their diameter** (lumen) to increase or decrease blood flow
- Vasodilation increasing size to allow more blood through (happens during exercise so more blood can get to muscles)
- Vasoconstriction decrease in size to allow less blood flow through.

### Function of the Vein

- Veins carry DEOXYGENATED blood TOWARDS the heart.
- They have much thinner walls compared with arteries because blood pressure is much lower.
- They have a large internal diameter (lumen).
- Veins have valves to prevent blood flowing backwards.

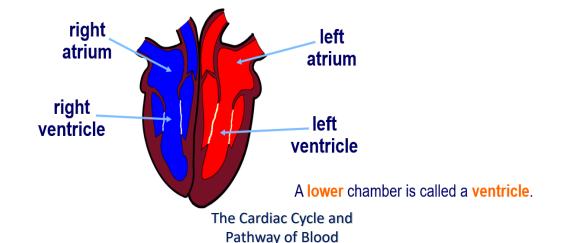
### **Function of the Capillaries**

- Very thin blood vessels that join arteries (carrying blood away from the heart) and veins (which carry blood back to the heart)
- The thin walls of the capillaries allow for gases to be exchanged oxygen to pass through to the blood.
- Nutrients and waste products can also diffuse from the capillaries into the blood.

### The <u>HEART</u>

### The STRUCTURE of the Heart

The four chambers of the heart have special names: An **upper** chamber is called an **atrium** (plural: atria).



There are two phases of the cardiac cycle

Diastole – heart ventricles are relaxed and the heart fills with blood

Systole – the ventricles contract and eject the blood pumping it to the arteries.

One cardiac cycle is completed when the heart fills with blood and the blood is pumped out of the heart.

Valves are found in the heart, pressure forces them open and close in order to prevent backflow – blood always travels in one direction.

# EARNING — LOVING — LIVING

### Skill and Ability

<u>Skills</u> – are learned and, when mastered, are consistently done in a way that looks good and shows good technique.

**Abilities** – are inherited from parents. They are known as traits which remain fairly stable throughout life. Abilities can help performers learn new skills quicker.

Do you have natural ability in a sport?

### **Classification of Skills**

Skills are put into groups/categories – Skill Classification

The **basic** to **complex** continuum The **Open** to **closed** continuum The **Self paced** to **externally paced** continuum The **gross** to **fine** continuum. **The Basic to Complex Continuum** 

### How do you decide if someone has basic or complex skills? Ask the following questions:

Who is the skill being taught to? A beginner or more experienced performer? How much decision making is involved – do you have to use high level thinking? Are the movements easy to carry out without much experience?



A – A forward Roll



B – A double somersault

### The Open to Closed Continuum

To determine whether something is an open or a closed skill, it is all dependent on the **environment.** 

**Open Skill** – A skill which is performed in a certain way to deal with a changing or unstable environment, e.g. to outwit an opponent.

**Closed Skill** – A skill which is not affected by the environment or performers within it. It tends to be done the same way each time.





A – Football Pass

B - Penalty

### The self-paced to externally-paced Continuum

Self-paced Skill – The skill is started when the performer decides to start it. The speed, rate and pace of the skill is controlled by the performer.

**Externally-paced Skill** – The skill is started because of an external factor. The speed, rate and pace of the skill is controlled by external factors, e.g. opponent.

# YEAR 9— TRINITY TERM — COMPUTER SCIENCE- PROGRAMMING



1	Algorithms	understand what an algorithm is, what algorithms are	Python -> English	
		used	<pre>print("hello!")</pre>	Printsa value on screen (in this case, hello!)
		for and be able to interpret algorithms (flowcharts,	<pre>input("")</pre>	Inputs a value into the computer.
<u> </u>		pseudocode, written descriptions, program code) understand how to create an algorithm to solve a	$x = input(\alpha )$	Inputs a value and storesit into the variable x.
2	Flowcharts	particular problem, making use of programming	<pre>x = int(input(""))</pre>	Inputs a value into x, whilst also making it into an integer.
		constructs (sequence, selection, iteration) and using appropriate	answer = x + y	Savesthe result of x and y added together in a variable named answer.
		conventions (flowchart, pseudocode, written	<pre>print(str(x))</pre>	Printsthe variable x, but con verts it into a string first.
		description, draft program code)	<pre>print("Hello", "World")</pre>	Printsthe two strings concatenated with a space between. This code would output "Hello World".
3	Pseudo code	understand the purpose of a given algorithm and how an algorithm works	<pre>age = 12 print("Age: " + str(age))</pre>	"Age: 12".
4	Interpreting Algorithms	understand how to determine the correct output of an algorithm for a given set of data	<pre>if name == "Fred":</pre>	Decides whether the variable 'name' ha a value which is equal to 'Fred'.
5	Errors in	understand how to code an algorithm in a high-level	else:	The other option if the conditions for an if statement are not met (eg. name = 'Bob' when it should be Fred)
	algorithms	language	<pre>elif name == "Tim":</pre>	elif (short for else if) is for when the first if condition is not met, but you want to specify another option.
6		understand how the choice of algorithm is influenced by the data structures and data values that need to be manipulated	# COMMENT	# is used to make comments in code – an y line which starts with a # will be ignored when the program runs. They are used to describe the code to a programmer.
7	Programming	be able to write programs in a high-level programming language	for i in range(0,10): # WRITE CODE HERE while x < 10:	Repeats an y code indented after this line a set number of times, in this case, 10. Repeats an y code indented after this line until a condition
8	Python	understand the benefit of producing programs that are easy to read and be able to use techniques	<pre># WRITE CODE HERE list = ["",""]</pre>	is met, in this case x becoming equal to or greater than 10. Creates a variable and makesit an array – a list which can store many values.
		(comments, descriptive names (variables, constants, subprograms), indentation) to improve readability and to explain how the code works	def hello(name): print(	"Hello " + name + " nice to meet you")
9	Errors in code	be able to differentiate between types of error in programs (logic, syntax, runtime)	hello("Alice") hello("Bob")	
10	Trace Table	be able to determine what value a variable will hold at a given point in a program (trace table)	hello("Sue")	

# <u>YEAR 9— TRINITY TERM — COMPUTER SCIENCE- PROGRAMMING</u>



Python -> English			Data types			Compara	tive operators		
<pre>print("hello!")</pre>	Printsa value on screen (in this ca	se, hello!)		<i>,</i> ,			==	Equal to	
input("")	Inputs a value into the computer.		Data Type	This indicates	how the data will	Casting code	!=	Not equal to (or different to)	
<pre>x = input("")</pre>	Inputs a value and stores it into th	ie variable x.		be stored. The most common data types are integer, string,			>	Greater than	
<pre>x = int(input(""))</pre>	Inputs a value into x, whilst also n	nakingit into an integer.					<	Less than	
	Savesthe result of x and y added	together in a variable		and float/real.	0 · 0.		>=	Greater than or equal to	
answer = x + y	named answer.	espectice in a reliable	String	· · ·		str(x)	<=	Less than or equal to	
<pre>print(str(x))</pre>	Printsthe variable x, but converts	it into a string first.	Jung	A combination of letters, numbers or characters. (eg,		su(x)	MOD	Modulus e.g. 12MOD5 gives	
<pre>print("Hello", "World")</pre>	Printsthe two strings concatenat			Hello, WR10 1XA)			2		
····· ,	This code would output "Hello We						DIV	Quotient e.g. 17DIV5 gives	
age = 12	The + joins together two variable: to be used to cast age to be a stri	· •	Integer	A whole numb	ber. (eg. 1, 189) int(x)			3	
<pre>print("Age: " + str(age))</pre>	"Age: 12".		-	,		.,	^	Exponentiation e.g. 3^4	
<pre>if name == "Fred":</pre>	Decides whether the variable 'na	me' haa value which is	Float/Real		nber, not a whole	float(x)		gives 81	
	equal to 'Fred'.			number. (eg. 3.14, -26.9)			num1 = f	num1 = float(input("Enter the first	
else:	The other option if the conditions		Boolean 1 of 2 values. (eg.		eg. True, False,	bool(x)	number: "))		
	not met (eg. name = 'Bob' when it should be Fred) elif (short for else if) is for when the first if condition is not met, but you want to specify another option.		Yes. Arithmetic operators			num2 = float(input("Enter the second number: "))			
<pre>elif name == "Tim":</pre>									
	# is used to make comments in co		Operation	Symbol	Example	Output	if num1 > num2:		
# COMMENT	starts with a # will be ignored when the program runs. They are used to describe the code to a programmer.		Addition + 2+10 12 pri		ן print (ו	print (num1, " is greater than ",			
<pre>for i in range(0,10):</pre>	They are used to describe the coo Repeats any code indented after 1		Subtraction	-	9-6	3	num2)		
# WRITE CODE HERE	times, in this case, 10.	ano nice a section per UI	Multiplication	* 5*4		20	if num1 < num2:		
while x < 10:	Repeats an y code indented after t		Division	/	5/2	2.5	print (r	num2, " is greater than",	
# WRITE CODE HERE	is met, in this case x becoming eq	-	Floor Division	//	7//2	3	num1)		
list = ["",""]	Creates a variable and makes it ar	ı arraγ – a list which can	Remainder	%	7%3	1	if num1 =		
	store man y values.						print (r	num1. "is equal to". num2)	
Innut/e) Dress	outout(a)	Decision(s)	Validation Type	2	Where	Reason			
Input(s) Proces			Presence check   Sales   To make sure that each time the nur				h time the number of sales for		
Staff Name Calculate the	, .	Whether they have				each mont	each month is entered rather than having blank		
Staff Monthly sales (x12) (monthly sale	sadded	entered 12 monthly sales				entries.	entries.		
together) Calculate the	average	Whether the average is enough to get a bonus	Presence check		Name To make sure that a staff me		aff member's name is entered		
sales (total di	ů l		Format check Sales To make sure that the sales are a numerica			sales are a numerical value			

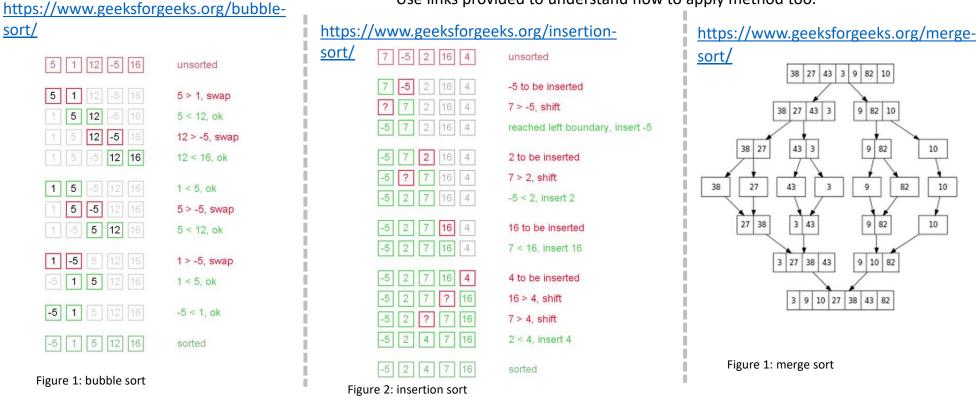
# YEAR 9— TRINITY TERM — COMPUTER SCIENCE- PROGRAMMING



Key vocab		Addition example code	if entry == "a"	Selection will be
Python	A programming language used to write programs.		then	carried out with if/else
Shell	The place where code is run.	<pre>number1 = int(input("Input the first number :"))</pre>	print("You	and switch/case. In the
Code editor	The place where code is written.	<pre>number2 = int(input("Input the second number :"))</pre>	selected A")	example the
Programming	The process of writing computer programs.	answer = number1 + number2	elseif	pseudocode is checking
Algorithm	A set of rules/instructions to be followed by a computer	<pre>print("The answer is " + str(answer))</pre>	entry=="b"	the input and returning
	system.		then	a message based upon
Flowchart	A visual method of planning an algorithm using symbols.	Finding errors – follow these steps	print("You	the specific input
Pseudocode		Have you checked that you have closed all brackets correctly?	selected B")	required, the else block
	A language similar to English which is used to	Have you checked that you have closed all quotes correctly?	-	is used as a catch for
	plan algorithms.	Are your variable names spelt in the same way consistently? Remember that	else	any unexpected input
Code	The instructions that a program uses.	Python is case sensitive		which allows the code
Sequence	Parts of the code that run in order and the pathway of the	•Have you remembered to use commas to separate the variables inside print?	print("Unreco	to degrade gracefully.
	program reads and runs very line in order.	•Have you used quotes around strings which you want to print out word for	gnised	
Selection	Selects a pathways through the code based on whether a	- word?	selection")	The switch/case
Selection	condition is true.	Have you used int or float on number inputs?	endif	method works in the
Iteration	Code is repeated (looped), either while something is true or	WHY comments IN CODE IS IMPORTANT	chun	
	for a number of times.	Well commented functions/logics are helpful to other programmers to	switch entry:	same way.
Variable	A value that will change whilst the program is	understand the code better.	case "A":	WHY INDENTING IN
		If you see/edit code later, comments may help you to memorize your logic	case A.	CODE IS IMPORTANT
	executed. (eg. temperature, speed) A collection of code that works outside the main program.	that you have written while writing that code.		•Easier to read
Function	These are created to speed up programming. They can be		print("You	<ul> <li>Easier to understand</li> </ul>
	called from a single line of code at any time.	Selection example code	selected A")	<ul> <li>Easier to modify</li> </ul>
		for any sight (inset ("Disk a number between 1 6 10 "))	case "B":	<ul> <li>Easier to maintain</li> </ul>
Comparative	A symbol used to compare multiple values.	<pre>fav_num = int(input("Pick a number between 1 &amp; 10"))</pre>		<ul> <li>Easier to enhance</li> </ul>
Operator		if(fav num == 7):	print("You	Free online training
Arithmetic	A symbol used to manipulate numerical values.	print("Good guess!")	selected B")	https://www.sololear
operator	····,·····	elif (fav num $< 7$ ):	default:	<u>n.com/</u>
Syntax	The punctuation/way that code has to be written so that	<pre>print("Too low!")</pre>		
	the computer can understand it. Each programming	else:	print("Unreco	Free download for
	language has its own syntax.	<pre>print("Too high!")</pre>	gnised	home
Syntax error		1	selection")	https://www.python.
oyntan ciror	An error produced when the computer cannot understand			org/about/gettingstar
	the code which has been written.		endswitch	<u>ted</u>
Logic error	An error produced when a program is understood by the			
	computer but does not perform as the			
	programmer expects.			
	probrammer expects.			

### YEAR 9- TRINITY TERM - COMPUTER SCIENCE- SORTING





Use links provided to understand how to apply method too.

**Bubble sort** Works by repeatedly going through the list to be sorted, comparing each pair of adjacent elements. If the elements are in the wrong order they are swapped, else they are left in position.

**Insertion sort** Sorts data one element at a time. The algorithm takes one data item from the list and places it in the correct location in the list. This process is

repeated until there are no more unsorted items in the list. More efficient than bubble sort.

**Merge sort** This is a two-stage sort. Firstly the list is split in half into sub lists repeatedly. The algorithm stops splitting the lists when each list has only 1 element in it. The second stage involves repeatedly merging the lists in order until there is only one sub list remaining.

### **Theatre in Education Skills**



Target Audience	Narration
It is important that the creators and performers in a T.I.E. play know exactly who their audience are so that the	Narration is used in T.I.E. to guide the audience through the plot. There are two types of narration as follows:
materials they produce are appropriate and beneficial for the specific audience.	1. In role
	The character narrates in first person For example "My name is Little Red Riding Hood. I live in the forest"
Specific Message	2. Third Person/Out of role/All Knowing
T.I.E. plays must have a specific message that they are teaching the audience.	Commenting upon a character as an actor is a clear way of reminding the audience of theatricality. The narrator speaks in third person. For example "This is Little Red Riding Hood, She lives in the forest".
Facts	
T.I.E. plays are designed to educate the audience about a specific topic. It is therefore essential that the	Stereotypical characters
information given out is accurate. Facts can be used to help devise the play and they should also be included	These are easily recognisable stock characters. They are often exaggerated and represent a type of character
within the performance	rather than a specific individual. For example, the mum, the teenager, the teacher.
Communal Voice/Chorus	Multi-roling
Chorus is when the performer use the same movement and say the same lines. Communal voice is a variation of	Multi-roling is when an actor plays more than one character onstage. The differences in character are marked by
Chorus used in T.I.E. The performers speak with 'one voice' and usually reinforce the message of the play.	changing voice, movement, gesture and body language but the audience can clearly see that the same actor has taken on more than one role.
Where to get help.	
At the end of watching a T.I.E. play, the audience should know what to do if they face a similar situation to the	Speaking Stage Directions
characters in the play. Where do they go for help/support?	This is when the actors narrate the stage directions prior to acting them out. For example the actor will say
	"Daniel sat down angrily" and then he will sit angrily.
Directly Engaging the Audience:	
1. Direct Address – The actor or character breaks the forth wall and speaks directly to the audience.	Split-role
2. Forum Theatre – The audience are given tasks to do which involve them within the performance.	This is where more than one actor plays the same character. For instance, the actor playing the main character
	might rotate from scene to scene. This keeps that character representational and inhibits emotional involvement
Episodes	and attachment on the part of the audience.
A series of scenes which can be related or unrelated.	Destricted Design 12 data and sound
	Basic Set, Props, Lighting and sound
Placards/PowerPoints A placard is a sign presented onstage. Using placards might be as simple as holding up a card or banner.	T.I.E. has to travel to a variety of performance venues. Therefore actors use minimal set and props. They usually carry their own sound equipment with them and rarely use stage lighting.
Multimedia or a PowerPoint slideshow can also be used for this effect. For example Scene One – The Bad News	
	Song /Dance/Movement
	Song, dance and movement are often used in T.I.E. plays to engage the audience and make the performances
	more visually/orally interesting.

# <u>YEAR 9— TRINITY TERM — DRAMA — PHYSICAL THEATRE</u>



Physical Theatre: Explanation	Physical Theatre Key Words	Physical Theatre: Performance Skills
<b>The Nature of Physical Theatre</b> At its simplest, you could define Physical Theatre as a form of theatre that puts emphasis on movement rather than dialogue. But remember there are a huge number of variations as the genre covers a broad range of work. But essentially Physical theatre is anything that puts the human body at the centre of the storytelling process. As a result it's often <b>abstract</b> in style, using movement in a <b>stylised</b> and <b>representational</b> way. With the expression of ideas choreographed through movement, such performers use very little or no dialogue at all.	<ul> <li>Abstract: To perform in a way that is not like real life.</li> <li>Stylised: Non-realistic performance</li> <li>Representational: Symbolic</li> <li>Exaggerate: To perform in a larger than life way. Over emphasize movement and speech.</li> <li>Narrated Action: To perform the actions whilst a narrator orates (speaks)</li> <li>Combined Art Forms:</li> <li>Physical theatre includes elements of dance, music, visual arts, spoken word and mime</li> </ul>	<ul> <li>Physicalisation of Set: Using the body to create objects on the stage</li> <li>Physicalisation of Emotions: Using the body to symbolise emotions</li> <li>Mask: Concealed facial expression so meaning created through movement and body language</li> <li>Power of the Hand: Symbolic fight in which person A extends hand into face of person B and controls their movement</li> </ul>
Rehearsal Techniques	Body Language Key Word	
<ul> <li>Bigger Bigger Bigger</li> <li>Rehearse one scene several times increasing the energy in gesture/movement, exaggeration of facial expression and volume</li> <li>Non-Verbal Body Language Perform a scene without speaking. Create meaning through mime.</li> <li>Hot-Seating An actor sits in the hot-seat and is questioned in role. They spontaneously answer questions.</li> <li>Role on the Wall Draw an outline of your character. Annotate it to reflect the character's thoughts, feelings, fears, circumstances etc.</li> <li>Inner Thoughts Whilst rehearsing a scene, one person will shout "Freeze, inner thoughts". The actor should freeze and spontaneously say out loud what the character is thinking.</li> <li>Conscience Corridor Performers make two lines facing each other. The protagonist poses a question. Actors on each side of the</li> </ul>	This is what your character's movements and way of using their body says about them. A character who is very nervous and stressed may fidget a lot or have their shoulders hunched up tight to indicate tension. Key Words Movement: e.g. rushing in or stamping their foot excitedly. Stance: How the character stands. Gait: The way the character walks. Posture: How the character walks. Posture: How the character stands or sits e.g. slouch or straight. Proxemics: The space between the characters creates meaning. e.g. distance may mean enemies and contact may mean intimacy Levels: Suggest status e.g. a dominant character may be higher up Use of space: The character can demand a lot of space or hide in a small corner.	Mirroring: Copying the movement of a partner in complete unison         Unison:         Moving together in time         Formations:         Shapes line, triangle, square etc         Proxemics:         Distance between characters suggests meaning         Character:         Physicality and actions to create person         Contact work:         Holding or making physical contact with others         Dynamics:         Speed and energy of the movement         Focus:         Where your eyes should be focused during play.

### <u>YEAR 9— TRINITY TERM — DRAMA — BRECHT</u>



#### Political Message

Brechtian plays have a political message.

#### Narration

Narration is used to remind the audience that what they're watching is a presentation of a story. Sometimes the narrator will tell us what happens in the story before it has happened. This is a good way of making sure that we don't become emotionally involved in the action to come as we already know the outcome. There are two types of narration:

1. In role

The character narrates in first person For example "My name is Little Red Riding Hood. I live in the forest".

2. Third Person/Out of role/All Knowing

Commenting upon a character as an actor is a clear way of reminding the audience of theatricality. The narrator speaks in third person. For example "This is Little Red Riding Hood, She lives in the forest".

### Speaking the Stage Directions

This device was used by Brecht more frequently in rehearsal than performance. It helps distance the actor from the character they're playing. It also reminds the audience that they're watching a play and forces them to study the actions of a character in objective detail.

### Breaking the Fourth Wall

The fourth wall is an invisible, imagined wall that separates the actors from the audience. While the audience can see through this "wall", the convention assumes, the actors act as if they cannot. When an actor uses Direct Address (i.e. speaks directly to the audience either in or out of role), this is called Breaking the Fourth Wall.

### **Direct Address and Step Out**

Speaking directly to the audience breaks the fourth wall and destroys any illusion of reality.

#### Placards

A placard is a sign presented onstage. Using placards might be as simple as holding up a card or banner. Multimedia or a PowerPoint slideshow can also be used for this effect. The information doesn't just comment upon the action but deepens our understanding of it. For example, a married couple are arguing and the wife is very upset. If the actress held up a placard saying 'I'm miserable' that wouldn't tell us anything about the character that we didn't already know. However, if her placard said 'I'm having an affair' or 'I've never loved him' the audience would be forced to consider other aspects of their relationship. Placards can also help the audience to consider wider contexts, for example, the wife could hold up a placard that says facts about divorce "50% of married couples apply for divorce" Placards can also be used to identify changes the movement from one episode to the next.

### Symbolic Props

Often one item can be used in a variety of ways. A suitcase might become a desk, or a car door or a bomb.

### Episodes

Brecht called scenes 'episodes', with each scene being relatively self-contained.

### Minimal set / costume / props

Set, costume and props are all kept simple and representational. Elaborate costumes might mean that the sense of theatre, of pretending to be something else, was lost.

### Shock Tactics

Brecht would often try to shock the audience so that they would really consider his political message.

### Multi-roling

Multi-coling is when an actor plays more than one character onstage. The differences in character are marked by changing voice, movement, gesture and body language but the audience can clearly see that the same actor has taken on more than one role. This means the audience are more aware of the fact that they are watching a presentation of events. Cross-sex casting is also possible in Epic theatre as we don't need to suspend our disbelief.

#### Split-role

This is where more than one actor plays the same character. For instance, the actor playing the main character might rotate from scene to scene. This keeps that character representational and inhibits emotional involvement and attachment on the part of the audience.

#### Stylised Lighting

Brecht believed in keeping lighting simple as he didn't want the production values to overshadow the message of the work. He believed in using harsh white light as this illuminates the truth. However, many modern productions do use lighting effects. The important thing is that the audience still see the theatre, so often they will see production personnel, such as backstage crew, in action on the stage rather than hidden.

### Spass

Spass literally translates as 'fun'. Brecht wanted to make his audience think. He realised that while we are laughing we are also thinking. Brechtian work isn't boring and it's definitely not always serious either. Even if the message itself is serious Brecht realised that comedy could be an excellent way of engaging the audience and forcing them to think about issues. Spass was also used to break the tension. For example, a very serious work addressing suicide might break the action by creating a parody of an American advert: Are you feeling low? Depressed? Think there's no way out? Then you need new 'End it All'...The poor taste of this would be shocking for an audience. But it actually highlights the pain of depression through contrast and black comedy. The audience will laugh and then question why they laughed.

### Gestus

Gestus, another Brechtian technique, is a clear character gesture or movement used by the actor that captures a moment or attitude rather than delving into emotion. So every gesture was important and exaggerated. Brecht didn't want the actors to be the character onstage, only to show them as a type of person. For example, the boss who is corrupt and smoking a fat cigar as his workers starve is representative of every boss who profits through the exploitation of others. For this reason Brecht will often refer to his characters by archetypal names, such as 'The Soldier' or 'The Girl'. So we judge the character and their situation, rather than just empathising with them. Gestus is also gesture with social comment. For example, a soldier saluting as he marches across a stage is a gesture. But if he was saluting as he marched over a stage strewn with dead bodies, it would be Gestus as a social comment about the type of person he represents.

### Song, Nursery Rhyme, Dance and Movement

This reminds the audience of the fact they are watching a play. Often in Brechtian theatre the style of the music and the lyrics jar, they don't seem to fit together in style. This distances the audience further. Brecht used melodies that are upbeat and joyous, yet the lyrics are sinister and dark (example 'Mack the Knife' from The Threepenny Opera. Brecht also used well known nursery rhymes and changed the lyrics to deepen the audience's thoughts and have an impact on how they felt about certain political views.

### Ensemble

All members of the cast working together on behalf of the play, rather than emphasising individual actors or characters.

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### YEAR 9- TRINITY TERM - MUSIC TECHNOLOGY - RECORDING EQUIPMENT



### **KEYWORDS**

**1- XLR**: A connector used for microphones or other audio signals, most commonly with three pins although some have more or less. (**Male** have 3 pins; **Female** have 3 holes – they can be connected together).

**2- Jack**: A type of plug/connector with eiter a Tip and Sleeve (TS) or Tip, Ring and Sleeve (TRS). Commonly available in three sizes: 6mm (1/4 inch), 3.5mm (mini-jack) and 2.5mm.

**3-Phono (RCA):** They have two unbalanced wires and are often twinned for use as left and right. Right is usually red and left can be any colour, but usually grey or white.

**4-DIN:** Can have a wide range of pin patterns. Most commonly used for MIDI connections have a semicircle of pins, usually five.

**5-Y Lead**: A lead which separates the two signal wires coming from a TRS jack, and send them to two other mono connectors.

6 – Adapters: Used for when you don't have a suitable cable to convert one connector to another connector.

7-balanced cable: Has a separate earth wire with the two signal wires.

**8-unbalanced cable**: A type of connection or cable with two signal wires only, one of which is also connected to earth (ground).

**9-Dynamic**: A dynamic microphone generates its own electrical signal by vibrating a coil of wire in a magnetic field.

**10-Capacitor:** A microphone in which the diaphragm forms one side of a capacitor. When the diaphragm vibrates, the stored charge in the capacitor is

**11-Directionality**: The pick-up pattern of a microphone, dependent on the shape of the microphone bosy and the construction of its capsule.

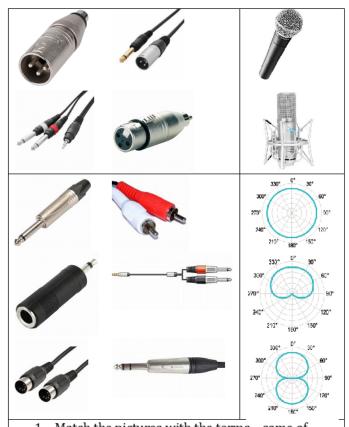
12- Omnidirectional: All directions - picks up sound well from all around it.

**13-Figure of eight**: Picks up sound from the front and rear, but very little from the sides.

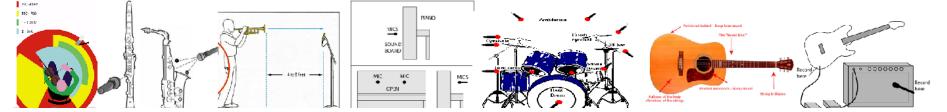
**14-Cardiod**: Picks up sound well from the front, some from the sides and much less from behind.

**15- Hypercardioid**: Similar to cardiod but more focused to the front and has some side rejection.

**16-Spill:** When you pick up other instruments other than the one you are trying to record, sometimes also known as bleed.



- 1. Match the pictures with the terms some of them combine 2 of the terms.
- 2. Try to be as detailed as possible.



### YEAR 9- TRINITY TERM - MUSIC TECHNOLOGY - MIXING DESKS

### KEYWORDS

Mixer: A device that combines and controls audio signals from other equipment.

Mix Bus: A bus is a path along which an audio signal can be routed. Used to combine different inputs before sending them to the main output.

Pan: The placement of sounds from left to right, usually achieved by distributing signal between left and right speakers (creating stereo sound)

Gain: A measure of amplification. A gain of 10 means the output will be 10 times stronger than the input.

Foldback: A speaker used to help instrumentalists hear themselves or the mix, sometimes called a **monitor**.

Auxiliary: 'extra' – an additional signal path. They are 'pre' (before) fader or 'post' (after) fader.

17- EQ (Equalisation): The process of filtering, amplifying or attenuating a range of frequencies in an audio signal. Usually in ranges of frequency (bands) such as Bass, Mid and High.

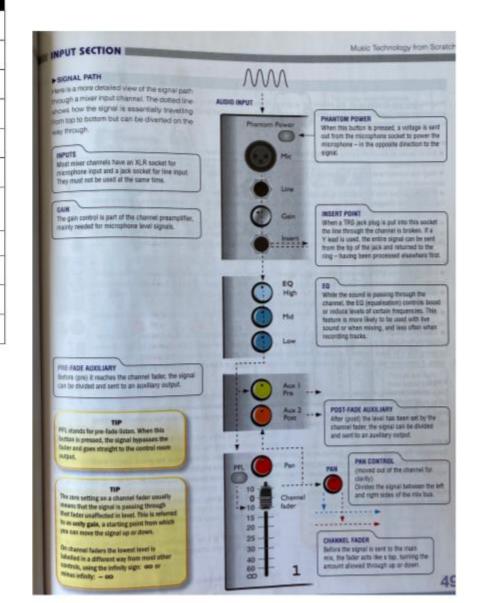
17- Channel: Where the input of a single instrument/voice is mixed.

17- Fader: A linear or rotary control, most commonly found on a mixer to adjust the volume of each channel.

17- DI Box: A device that matches the audio signal from a guitar or other instrument to a microphone input on a mixer.

Audio interface: A device enabling analog audio equipment to connect to a computer, consisting of analog-to-digital and digital-to-analog convertors.





EARNING — LOVING — LIVING



#### Factors that influenced its inception

- Reggae emerged in Jamaica from its predecessors Ska and Rocksteady and was performed at a slower tempo with a more laid-back feel.
- After Jamaica's independence, people flocked from the countryside to Kingston, seeking work and settling into shanty towns. With high unemployment, Jamaican 'rude boys' (disaffected youths on the street) arose and became regular subject matter.
- The roots Reggae style incorporated elements of the Rastafarian religion into the lyrics, with a political message concerning the plight of the underprivileged Jamaican.
- Engineer-producers such as King Tubby and Lee 'Scratch' Perry worked with 'dub' recording techniques – creating dub versions of songs which were also later used to 'toast' over.

#### Significant artists/bands/producers

Duke Reid & Coxsone Dodd: producers who helped to slow the tempo of ska, to form rock steady. Toots & the Maytals: pioneered the Reggae sound Bob Marley and The Wailers: Became the defining sound of roots Reggae (Bob Marley, Bunny Wailer & Peter Tosh). Helped Reggae to reach a global audience. Jimmy Cliff: gained international fame as the star of the movie 'The Harder They Come '. Chris Blackwell: Founded Island Records in Jamaica but relocated to London.

Clement Dodd: Studio One producer, recorded The Wailers 1<sup>st</sup> track 'Simmer Down'.

UB40: British Reggae Band, gave Reggae a fresher sound.

### Imagery & fashion associated with the style

Associated fashions included the colours of the Jamaican flag: green, gold, red and black - each colour symbolizing a different thing, associated with the Rastafarian religion. Dreadlocks are also common features



#### Important recordings/perform an ces/events

1962: Jamaica became independent. 'My boy Iollipop, Millie Small (1964): early reggae success in British charts 'Rudy a message to you', Dandy (1967) - example of a 'rudeboy' song. 'Do the reggay', The Maytals (1968): early use of the term 'reggae. The Israelites, Desmond Dekker (1969) 'Wonderful World, Beautiful People', Jimmy Cliff (1969)1972: Blackwell signed Bob Marley & the Wailers. 1973: The Harder they come (film) was released 'No Woman no Cry', Bob Marley (1974) 'I shot the Sheriff', Eric Clapton (1974): Cover of Marley's song which was a big hit and inspired many listeners to look up Marley's music. Freedom Fighters, Delroy Washington (1976) 'One Love', Bob Marley (1977) 1978: Bob Marley brings 2 opposing leaders together at 'One Love' concert in a bid to encourage peace.

### Musical Features

Slow tempo with a laid-back feel. The bass guitar and percussion are brought to the foreground, and guitar and keyboards sent back in the mix, exchanging the traditional roles of these instruments. A Reggae bassline is very melodic and often the defining feature. It normally avoids the first beat of the bar. Drums also avoid beat 1, preferring to stress beat 3. The guitar mostly plays chords on the offbeat, beats 2 and 4. Piano & organ also play on the offbeat. Horns sometimes add countermelodies and would normally be made up of Sax, Trumpet and Trombone.

## <u>YEAR 9— TRINITY TERM — ART — COMPLEX PATTERNS</u>



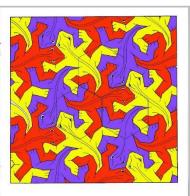
### A. Key Terms

Keyword	Description
7. Pattern	A design that is created by repeating lines, shapes, tones or colours. The design used to create a pattern is often referred to as a motif. Motifs can be simple shapes or complex arrangements
2. Weight	The thickness of a mark or brushstroke
3. To <b>Block in</b>	<b>to BLOCK IN</b> : to fill in an empty area in an image with a certain colour before adding fine details such as shadows and highlights.
4. Composition	how objects or figures are arranged in the frame of an image
5. Contemporary	Living or occurring at the same time.
6. Negative Space	When drawing shapes, you must consider the size and position as well as the shape of the area around it. The shapes created in the spaces between shapes are referred to as <b>negative space</b> .
7. Geometric	characterized by or decorated with regular lines and shapes. "a geometric pattern"

### B. Pattern



B1: Radial Symmetry A pattern that rotates around a central axis. B2: Symmetry the quality of being made up of exactly similar parts facing each other or around an axis.



B3: Tesselation A tessellation of a flat surface is the tiling of a plane using one or more geometric shapes, called tiles, with no overlaps and no gaps.

### C. Painting techniques

	Key Words: Painting Techniques and Equipment					
C1	Flat painting The use of flat colours (no tints or tones blended in) to give each shape a clear bold finish.					
C2	Layers Additional layers of paint are added to make the painted shapes flatter in colour (no brush marks showing)					
С3	Palette	A flat container with wells to mix different coloured paint in.				
C4	Paint brush	A hand held painting tool to apply paint to any surface.				
C5	Water pot	A plastic container to hold water for cleaning brushes.				



Nutritional needs of people at different life stages Quick test **Pre-school children Babies and Toddlers** Children 1. Explain what food miles are. 3 Milk only for first 4-6 Balanced diet needed Balanced diet neede 2. Why is it important that the origins of food in line with Fatwell Guide months - in line with Eatwell can be traced? from 12 months • Weaning occurs from Guide from 12 months • High needs for energy 6 months – introduce a High needs for energy 3. Which two gases contribute to global and protein due to rapid wide variety of and protein due to warming? growth and constant rapid growth and textures and colours movement 4 What is the outer skin on the wheat grain • Avoid nuts (choking constant movement • Full fat dairy products hazard), salt and sugar 5-a-dav is called? should be consumed Salt and sugar should be recommended 5. What type of flour is need to make bread? avoided 6. Give two examples of recipes that depend Adults Elderly **Teenagers** on gelation of ingredients. Increased needs for iron Sedentary older people No more growth means 7. Give two examples of recipes that depend less energy is needed for in teenage girls due to have reduced energy menstruation adults than teenaaers requirements. Calcium on coagulation of egg protein and vitamin D are very Calcium intake & vitamin Well balanced diet 8. Give one example of a recipe that depends D are really important to modelled on the Eatwell important to prevent on the denaturation of egg protein ensure Peak Bone Mass is Guide essential. osteoporosis. Some elderly people can reached – setting up Many UK adults eat too bone health for life much fat, too much salt be at risk of Vitamin D Many UK teenagers are and not enough fruit and deficiency May have issues getting lacking in calcium, iron vegetables. and vitamin A. access to food due to mobility issues May also be at risk of lack of variety of nutrients due to poor absorption. Pregnancy & Lactation Because the body becomes more efficient at absorption during pregnancy, norm nutritional requirements apply until the last third of pregnancy, when some extra energy and calcium is required. Pregnant and lactating ladies should eat a varied diet rich in fresh fruit and vegetables and wholegrains (in line with the Eatwell Guide). There are some foods to avoid: Unpasteurised milk products and undercooked meats/cured meat products – they may contain listeria which is harmful to unborn babies Pate, liver and liver products – due to high vitamin A content (Vitamin A is harmful to unborn babies if eaten in large quantities)

• Swordfish, marlin and shark as they are high in mercury which can be harmful to unborn baby,



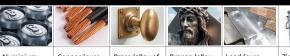
Scientific method for NEA 1 <u>1. Research</u>	Keywords 10	Key points
Gathering data or information about the ingredient(s) that you are investigating.	International cuisine	Nutritional needs change throughout life, but everyone needs to consider the current healthy
<u>2. Hypothesis</u> An idea, prediction or explanation that you	<b>1. Cuisine.</b> A style characteristic of a particular country or region with which specific ingredients, cooking methods, presentation	eating guidelines when planning meals.
then test through experimentation 3. Investigation	and serving styles are associated.	If you can't tolerate certain foods you have to change your diet
practical work that is undertaken by experimentation to prove or disprove the hypothesis.	<b>2. Traditional foods.</b> Food typically eaten by geographical, cultural, social or religious groupings, often using specific methods of preparation or cooking.	Some religions have their own dietary rules and laws.
<b><u>4. Fair test</u></b> An experiment that tests exactly the same	3. Culinary traditions	Allergy to nuts can cause anaphylaxis
thing during the investigation. E.g biscuits made should be cut out using the same	4. Meal structure. Typical eating pattern of a culture.	Traditional British food includes hearty dishes such as fish and chips, roast beef and Yorkshire
cutter	Food provenance	pudding and Full English breakfast.
<u>5. Control</u> The part of the experiment that stays the same. This ensures that a 'Fair Test' is	1. <b>Food miles.</b> The distance a food is transported from the field or food producer to the plate or consumer.	British eating patterns tend to include 3 meals a day; breakfast, lunch and dinner
carried out.	2. Carbon footprint. The amount of carbon that has been	European eating habits can be very similar to British eating habits with 3 meals a day
<u>6. Independent variable</u> The part of the experiment that is changed	produced during the growing, processing and distribution of a food product.	Other international cuisines include Chinese, Indian, and American; the style of dish and
<u>7. Dependent variable</u> The outcome of the experiment that can be measured	3. Global warming. The gradual heating of the Earth's surface, oceans and atmosphere.	types of ingredients can vary considerably according to region
<b>8. Analysis</b> Explanation of the results linked to the	4. <b>Food security.</b> When all people at all time have access to sufficient, safe and nutritious food, to maintain a healthy and	°C °F 75'C/167'E Cooked food should reach a core temperature of 75'C / 167'F
data. Link back to research	active life.	90194 75°C/167°F Reheat cacked food to at least 75°C/167°F 75°C/167°F
<u>9. Annotate</u> Add information to a photograph or chart	Setting mixtures	80
<b>10. Sensory testing and tasting</b> Measuring the outcomes of experiment using the senses to describe outcomes	<b>1. Coagulation.</b> When protein denatures and forms a solid structure. E.g. in a fried egg	50-     -122       40-     -104       30-     -66       20-     -66       30-     -
	2. Denaturation. Unravelling of bonds that hold amino acids	0 32
<u>11. Conclusion</u> Outcome or result	together in proteins and the creation of a different structure of proteins e.g. in whisked egg white to stiff peaks	-10 14 -20 4 S <sup>6</sup> C/41 <sup>6</sup> F Refrigerate food in a chiller
12. Evaluation	<b>3. Gelation</b> solidifying a mixture by chilling or freezing	90 minutes Cooling of food should take no longer than 90 minutes
To judge the worth of		-18°C and -22°C Frozen lood should be kept between O'F and -5°F -18°C and -22°C / 0°F and -5°F

### <u>YEAR 9— TRINITY TERM — ENGINEERING</u>



Materials – Ferrou	s metals - containing I	RON	
Cast iron	High carbon steel	Low carbon steel	Stainless steel
Good compressive strength, good for casting.	Strong and hard but difficult to form.	Tough and low cost.	Strong and hard, good corrosion resistance.

### Materials – NON Ferrous metals / alloys – containing NO iron



Aluminium	Copper (pure metal)	Brass (alloy of 65% copper 35% zinc)	Bronze (alloy of 90% copper 10% tin)	Lead (pure metal)	Zinc (pure metal)
Light, strong, ductile, good conductor, corrosion resistant.	Malleable, ductile, tough, good conductor, easily joined, corrosion resistant.	corrosion resistant, good conductor, easily joined, casts well.	Tough and hardwearing, corrosion resistant.	Very soft and malleable, heaviest common metal, corrosion resistant.	Low melting point, extremely corrosion resistant, easily worked.

#### Materials – Polymers – Thermoplastics – shaped when hot – can be reheated

Coore			XXX
ABS	Acrylic	Polycarbonate	Polystyrene
Strong and ridged, hard and tough, expensive.	Good optical properties, transparent, good colour, hard wearing, shatter proof.	High strength and toughness, heat resistant, good colour stability.	Good toughness and impact strength, good for vacuum forming and injection moulding.

### Materials – Polymers – Thermosetting plastic – can be moulded – non recycleable

Polyester resin	Melamine resin	Polyurethane	Vulcanised rubber
Good strength but brittle	Stiff hard and strong	Hard with high strength, flexible and tough	Highest tensile strength, elastic, resistant to abrasion

### Properties and characteristics of materials

<b>*</b>	Absorbency	To be able to soak up liquid easily.
	Strength	The capacity of an object or substance to withstand great force or pressure.
	Elasticity	The ability of an object or material to resume its normal shape after being stretched or compressed; stretchiness.
P	Plasticity	The quality of being easily shaped or moulded.
J.	Malleability	To be able to be hammered or pressed into shape without breaking or cracking.
	Density	The quantity of mass per unit volume of a substance
	Effectiveness	The degree to which something is successful in producing a desired result; success.
R	Durability	The ability to withstand wear, pressure, or damage.

### Testing materials

load and observing

the changes.

Materials testing is used to check the suitability of a material.	Testing can be non-destructive or destructive.		Most Non destructive testing will be visual.		Tensile testing, compressive strength tests and hardness testing are destructive.
Tensile test Compress		Compressiv	ve test	Hard	ness test
				ł	
- Used to find the		- The resist	ance of a	- Use	d to find out
strength under material u		material ur	nder a	how hard a materia	
tension. compressi		compressiv	e force.	is.	
- The maximum		- A materia	l is placed	- In a	work shop a
pulling or stretch	ing under com		pression to	hami	mer and dot
force before failu	ire.	see its resi	stance.	punc	h is used to
- Used by applying a - concrete is		is a good	creat	e an indentation	

example of material

with compressive

strength.

in the material.

SI Base Units					
unit	abb	physical quantity	Smallest Largest		
metre	m	length	Micrometer, millimeter, centimeter, meter		
second	s	time	Microsecond, millisecond, seconds		
kilogram	kg	mass	Milligram, gram, kilogram		
ampere	A	electric current	Micro amp, milliamp, amp, kiloamp		
kelvin	к	thermodynamic temperature	Kelvin, degrees Celsius		
candela	cd	luminous intensity	Microcandela, millicandela, candela		
mole	mol	amount of substance	Nanomole, micromole, millimole, mole		

### Engineering Disciplines

2.18.1.66.1.18 2.66.1	
Mechanical	Hydraulics, gears, pulleys.
Electrical	Power station, household appliances, integrated circuits
Aerospace	Aircraft, space vehicles, missiles
Communications	Telephone, radio, fibre optic
Chemical	Pharmaceuticals, fossil fuels, food and drink
Civil	Bridges, roads, rail
Automotive	Cars, motorcycles, trains
Biomedical	Prosthetics, medical devices, radiotherapy
Software	Applications, systems, programming

U	Understand the making Process						
1	Preparation	Drawing, CAD, sketches, plans.					
2	Marking Out	Pencil, scribe, steel rule, tri square, marking gauge, calipers, centre punch.					
3	Modification	Saw, jigsaw, scroll saw, laser cutter, pliers, hammer, drill, file, glass paper.					
4	Joining	Riveting gun, spanner, screwdriver, hot glue, gun, soldering iron, nail gun.					
5	Finishing	Hand sander, glass paper, disc sander, buffing wheel, polish, spray paint, varnish.					

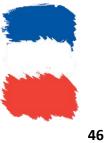
Health & Safe	ety Legislation			
Health and	Personal	Manual	Control of	Reporting of
Safety at work	Protective	Handling	Substances	Injuries RIDDOR
Act – an	Equipment – to	Operations –	Hazardous to	<ul> <li>keeping a log</li> </ul>
agreement to	protect your	lifting and	Health –	of accidents.
keep us safe.	body.	carrying.	chemicals.	



٦-	<u>- IKINIIY IEKM — FKENCH-</u>	VOLABULAIKE DU FRANÇAIS AU G		Trinit		J — LITI
	Ma vie d'internaute Je suis passionné(e) de photographie/cinéma/musique II y a (deux mois), j'ai créé une page Facebook une chaîne YouTube une station de radio un blog Ça (ne) marche (pas) très bien. J'ai beaucoup d'abonnés et de mentions «J'aime».	Parler de sport         Je fais de l'escrime/du footing depuis (quatre ans).         Je pratique le trampoline depuis (trois mois).         On joue au basket ensemble depuis (trois ans).         J'aime beaucoup ça car c'est élégant/facile ludique/sympa rapide/beau         C'est un sport qui est bon pour le corps/le cœur le mental/la concentration	La technologie Je fais beaucoup de choses des quiz/des recherches pour mes devoirs Je fais des achats. Films et télé J'ainne/Tadore les Je (ne) suis (pas) fan de Je (ne) suis (pas) fan de Je n'aime pas J'ai horreur des J'ai horreur des J'ai horreur des films de gangsters/d'action films d'aventure/d'horreur films d'astenture/d'horreur films de science-fiction	La musique Je joue du piano du saxophone du violon de la batterie de la clarinette de la clarinette de la guitare de la guitare de la trompette de la crondéon	Le sport Je fais du canoë-kayak du footing du hockey sur glace du patinage du roller du vélo/cyclisme de la boxe de la danse de la danse de la musculation de la natation	Semaine 1
	My life online Semaine I am passionate about/a huge fan of photography/cinema/music (Two months) ago, I created a Facebook page a YouTube channel a radio station a blog It's (not) working very well. I have lots of subscribers and likes.	Talking about sport         I've been doing fencing/jogging for         (four years).         I've been trampolining for         (three months).         We ve been playing basketball together         for (three years).         Ilike it a lot because it's         elegant/easy         fun/ nice         fast/pleasant         It's a sport that is good for         the body/the heart         the mind/concentration	Technology       Semaine 2         Ido       lots of things         lots of things       quizzes/research for my homework         Ibuy things/make purchases.       Films and TV         Ilke/love       Ilke/love         I am (not) a fan of       I am passionate about         I hate/can't stand       gangster/action films         adventure/horror films       adventure/horror films         science-fiction films       science-fiction films	Music I play the piano the saxophone the violin drums the clarinet the clarinet the flute the flute the flute the guitar the trumpet the accordion	Sport Ido/go Jogging ice hockey skating roller skating cycling boxing dancing weight-lifting swimming	Année 10 Higher
	Semaine 4 - partie A ge fan of Je vais travailler avec mon ami/ma sœur/ sic mon prof car iV-elle est plus/moins que moi arrogant(e)/créatif/-ive modeste/patient(e) optimiste/organisé(e) sérieux/-euse/technophobe d likes. Nous allons créer	et qui demande une excellente forme physique une bonne coordination de l'endurance de bons réflexes Ça m'aide à décompresser. Ça me fait du bien. Je préfère les sports individuels. Je respire. Je me fixe des objectifs. Je me fixe des objectifs.	Je vais sur mes sites préférés/ des blogs/des forums. J'envoie des e-mails/mails. Je joue à des jeux en ligne. Les documentaires les documentaires les jeux télévisés les magazines les actualités les émissions de musique/de sport/ de jeunesse/de télé-réalité Mon émission préférée, c'est Je trouve ça	Mon chanteur/Ma chanteuse préféré(e), c'est car j'aime ses paroles/ses mélodies J'aime aussi la musique de Ça me donne envie de Ça me rend J'ai téléchargé/acheté Je n'aime pas du tout la musique de Je déteste	de la planche à voile de la voile de l'escalade de l'équitation des randonnées Je trouve ça bien/cool génial/super passionnant barbant/ennuyeux nul/stupide	) Higher
	I'm going to work with my friend/ sister/teacher because he/she is more/less than me arrogant/creative modest/patient optimistic/organised serious/technophobic serious/technophobic We're going to create	Semaine 3 and which requires excellent physical condition good coordination endurance good reflexes It helps me to relax. It does me good. I prefer individual sports. I breathe. I set goals for myself. I forget my worries.	I go on my favourite sites/blogs/forums. I send emails. I play games online. I prefer documentaries game shows magazine programmes series current affairs programmes music/sports/youth/reality TV programmes My favourite programme is I find it I think that it's	My favourite singer is because I like his/her lyrics/tunes I also like's music. It makes me want to It makes me I downloaded/bought I downloaded/bought I don't like's music at all. I hate	wind-surfing sailing climbing horse-riding for walks I think it's good/cool great/super exciting boring rubbish/stupid	



Trinity



plus apparently in general, generally in any case especially with regard to so many more and more outside (of) together together notably everywhere not at all mostly while, whereas	Semaine 7 - Traduction spèciale en français : tous le vocabulaire plus         High-frequency words normally, usually       apparemment apparemment sometimes       apparemment en général de toute manière       apparem en général in gene de toute manière       apparem in any o surtout         often every day       surtout       apparement en général       apparement in gene de toute manière       apparement in any o surtout       apparement en général         yesterday evening recently       en ce qui concerne autant de for a while       so man de plus en plus       more ar outside         for a while first(ly)       de plus en plus en dehors de first(ly)       more ar outside       more ar outside         next       en dehors de first(ly)       en dehors de notamment       togethe notamment         next       notatut       partout       mort at a pour la plupart         because, as       pour la plupart       mostly while, w	ne 7 - Traduction speciale High-frequency words normally, usually sometimes often every day vesterday evening recently for a while when first(ly) next first(ly) next in my opinion personally because, as however	Les mots essentiels normalement quelquefois souvent tous les jours hier soir récemment depuis un moment lorsque d'abord ensuite à mon avis personnellement car cependant
vanity arrogance He/she settremely modest/sincere/ humble. I saw the film some time ago and since then. I/ve been a fan. Apparently, when he/she was young X is one of the best-known and most popular actors in the world. I love his/her films and I recommend them. I'm going to see his/her next film very soon.	Semaine 6 a. ue vanue d'arogance II/Elle est extrêmement modeste/ sincêre/humble. J'ai vu le film il y a un moment et depuis, je suis fan. Apparemment, quand il/elle était jeune X compte parmi les acteurs les plus connus et les plus appréciés au monde. J'adore ses films et je les recommande. Je vais voir son prochain film très bientôt.	Cinema I'm passionate/mad about cmema. I low I admite I'm a fan of since He is the most Spod-looking beautiful intelligent talented elegant gifted, talented formous chic with him/her, there is very little pretentiousness	Le cinéma Je suis passionné(e) de cinéma. J'adore Je suis fan de depuis Il est le plus Elle est la plus Elle est la plus beau/belle intelligent(e) talentueux/-euse élégant(e) doué(e) célèbre chic Chez lui/elle, il y a très peu de prétention
Semaine 5 The actors are excellent/not credible. The script has no connection to reality. I watch it in the original language. Before, I/we used to watch Now, I tend to watch Now, I tend to watch live on terrestrial TV on catch-up/streamed	Les acteurs sont excellents/ne sont pas crédibles. Le scénario n'a aucun rapport avec la réalité. Je le/la regarde en version originale. Avant, je regardais/nous regardions Maintenant, j'ai tendance à regarder en direct sur la TNT en replay/streaming	My favourite TV programmes My favourite TV programme is It's (a reality documentary) about I watch it every week every day/month overy day/month find it amazing/fantastic/great. I find it amazing/fantastic/great. I never miss it. I never watch it. I never watch it. I find it idiotic/crude. I love the presenters.	Mes émissions préférées Mon émission de télé préférée, c'est C'est (un docu-réalité) qui parle de Je le/la regarde toutes les semaines tous les jours/mois Je le/la trouve formidable/super/génial(e). Je ne le rate/manque jamais. Je ne le rate/manque jamais. Je ne le rate/manque jamais. Je ne le rate/manque jamais. Je ne le rate/manque jamais.
Now/Today, young people read blogs/texts/tweets spend all their time on their mobile I find that great. I find that it's good/better/a bit of a shame. In my opinion, the internet has killed the joy of reading.	Maintenant/Aujourd'hui, les jeunes lisent des blogs/des textos/des tweets passent tout leur temps sur leur portable Je trouve ça génial. Je trouve que c'est bien/mieux/un peu dommage. À mon avis, Internet a tué les joies de la lecture.	Reading When I was X years old, I read I liked In the past, I read with my children. stories/novels illustrated books/classics children's books/classics children's books/newspapers Now I read on my tablet/my computer on the internet	La lecture     Req Quand J'avais X ans, je lisais     Req Whe U'aimais       Yaimais     Ilike       Avant, avec mes enfants, on lisait     In th des histoires/des romans       des histoires/des romans     III       des livres illustrés/classiques     III       des livres pour enfants/des journaux     III       Maintenant, je lis     Now sur ma tablette/mon ordi
		<b>D</b>	Compine / - nart



# <u>YEAR 9— TRINITY TERM — SPANISH</u>

blanco/a negro/a rojo/a morado/a / violeta naranja zzul verde gris	Las normas del insti Tengo que llevar Tenemos que llevar (No) Llevo Es obligatorio llevar un jersey (de punto) un vestido una camiseta	Lo bueno / malo es que Lo mejor / peor es que Lo que más me gusta es / son noningún / ninguna nini nada tampoco Mi insti es mixto / femenino / masculino	¿Cómo es tu insti? En mi instituto hay/ Mi instituto tiene un salon de actos un comedor un campo de fútbol un gimnasio una pistina una biblioteca una pista de tenis / atletismo unos laboratorios muchas aulas	os? os que (a'a (co/a xigente xigente te te		<b>Fe interesa(n)?</b> el arte dramático el dibujo el español el inglés la biología la educación física la fisica la
white black red purple pink blue green green	School rules I have to wear We have to wear I (don't) wear We (don't) wear We (don't) wear It's computeory to wear a (knitted) sweater a dress a shirt a T-shirt Semana 4	The good / bod thing is that The best / worst thing is that What I like most is / are What I like least is / are (n)either(n)or no-thing / anything no-thing / anything nothing / anything mixed / all girls / all boys	What is your school like? In my school there is/ My school has a hall a canteen a football pitch a playground a playground a playground a library a tennis court / an athletics track some laboratories lots of classrooms Semana	How are your studies? Physics is more / less than It's better / worse than eas as easy / difficult fun / boring useful / relevant / practical creative / relaxing precise / logical / demanding My (science) teacher is patient / impatient tolerant / harsh clever / stupid hard-working / lazy	Semana 2	Languages Spanish English biology pe pe pe pe pe pe pe pe pe pe
llevar piercings Hay que ser puntual respetar el turno de palabra mantener limpio el patio La norma más importante es respetar a los demás Las normas son necesarias / demasiado severas	una chaqueta (a rayas) una chaqueta de punto una corbata una falda (a cuadros) unos pantalones unos calcetines unos vaqueros unas medias amarillo/a	donde jugar poco espacio antes / ahora El edificio / El colegio / El dia escolar es / era (in)adecuado/a / corto/a / largo/a Las clases son / eran Instituto de Educación Secundaria (IES)	público / privado pequeño / grande moderno / antiguo En mi escuela primaria había más / menos exámenes / deberes / alumnos muebles / espacios verdes tiempo libre oportunidades / instalaciones pizarras interactivas / clases aulas de informática	simpático/a / estricto/a Mi profe enseña / explica bien tiene buen sentido del humor tiene expectativas altas crea un buen ambiente de trabajo nunca se enfada me hace pensar nos da consejos / estrategias nos pone muchos deberes el curso académico las pruebas / las evaluaciones suspender / aprobar		<pre>Vocabulario Vale Higher?     me interesa(n) / me fascina(n)     me gusta(n) / no me gusta(n)     odio     prefiero     porque es / son     Mi dia preferido es (el viernes).     mi horario     ¿Qué dia tienes?     a la una / a las dos     y / menos cuarto     y / menos cuarto     y / menos cinco     y media     la educación infantil / primaria     la educación secundaria     el bachillerato     la formación profesional     el instituto</pre>
to have piercings It is necessary to be on time to wait for your turn to speak to keep the playground clean The most important rule is to respect others The rules are necessary / too strict	a (striped) jacket a cardigan a tie a (checked) skirt trousers socks shoes jeans tights yellow	somewhere to play little space before / now The building / The school / me school day is / was (in)adequate / short / long The lessons are / were secondary school	state / private small / large modern / old In my primary school there was/were My primary school had more / fewer, less more / fewer, less furniture / green spaces free time opportunities / facilities interactive whiteboards / lessons ICT rooms	nice / strict My teacher, teaches / explains well has a good sense of humour has high expectations creates a good working atmosphere never gets angry makes me think gives us advice / strategies gives us lots of homework academic year tests / assessments to fail / to pass		I'm interested in / fascinated by I like / I don't like I hate I prefer My favourite day is (Friday). my timetable What day do you have? I have English on Tuesdays. What time do you have? at one o'clock / at two o'clock quarter past / to half past pre-school / primary education secondary education A levels vocational training secondary school



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							Trinity	
Pienso que / Creo que las actividades extraescolares son muy divertidas algo diferente / un éxito te ayudan a olvidar las presiones del colegio desarrollar tus talentos hacer nuevos amigos te dan		Las actividades extraescolares Toco la trompeta Canto en el coro Voy al club de Soy miembro del club de ajedrez / judo / teatro / periodismo lectores / Ecoescuela / fotografía desde hace años / meses Para mi Pienso que / Creo que las actividades extraescolares son muy divertidas algo diferente / un éxito		2Qué vas a hacer? Voy / Vas / Vamos a Ilegar / salir / estar ir en coche / andando Ilevar ropa de calle ir / comer juntos hacer una visita guiada ver los edificios	¿Cómo es tu día escolar? normalmente Salgo de casa a las Voy a pie / andando en bici / en autobús / en coche en metro / en taxi / en tren		oscuro / claro a rayas / a cuadros bonito / feo cómodo / incómodo anticuado / elegante / formal El uniforme mejora la disciplina limita la individualidad da una imagen positiva del insti ahora tiempo por la mañana Está prohibido No se depernite No se debe comer chicle usar el móvil en clase dañar las instalaciones ser agresivo o grosero correr en los pasillos	
I think that extra-curricular activities are a lot of fun something different / an achievement they help you to forget the pressures of school develop your talents make new friends they give you	Semana7	Extra-curricular activities 1 play / I've been playing the trumpet 1 sing / I've been singing in the choir 1 go / I've been a member of 1 am / I've been a member of the club chess / judo / drama / reporters reading / eco-schools / photography for years / months For me 1 think that extra-curricular activities are a lot of fun something different / an achievement	Semana 6	What are you going to do? I'm going / You're going / We're going to arrive / go out / be go by car / walk wear casual clothes / non-uniform go / eat together do a guided tour see the buildings	What is your school day like? usually I leave home at I go on foot / walking by bike / by bus / by car by underground / by taxi / by train	Semana 5	dark/light striped / checked pretty/ugly comfortable / uncomfortable old-fashioned / smart / formal Uniform improves discipline limits individuality gives a positive image of the school soves tine in the morning It is forbidden You one must not You one must not to chew chewing gum to use your phone in lessons to damage the facilities to be agressive or rude to run in the corridors	Semana 4 Parte B
ganamos una competición nacional dimos un concierto It Este trimestre / El próximo II trimestre voy a aprender a continuar con		El año / trimestre / verano pasado <i>L</i> participé en un evento especial/ un concierto / un concurso / gané un trofeo toqué un solo conseguimos la clasificación como tuvimos una charla ganamos una competición nacional dimos un concierto ¡Fue un éxito! Este trimestre / El próximo		pasar todo el día en asistir a clases practicar el español ir de excursión tener una programación variada Va a ser fácil / guay	Las clases empiezan / terminan a las Tenemos clases al día. Cada clase dura minutos El recreo / La hora de comer es a la(s)		para limitar la libertad de expresión para fastidiar a los alumnos sacar buenas / malas notas Estoy de acuerdo. ¡Qué horror! ¡Qué bien! Un problema de mi insti es el estrés de los exámenes el acoso escolar la presión del grupo Hay (unos) alumnos que se burlan de otros sufren intimidación tienen miedo de hacen novillos quieren ser parte de la pandilla son una mala influencia	irte B
we won a national competition we gave a concert It was a success! This term / Next term //m going to learn to continue with stop doing it		Last year / term / summer I took part in a special event/ a concert / a competition / a tournament I won a trophy I played a solo we achieved the award / designation as we had a talk / presentation we won a national competition we gave a concert It was a success! This term / Next term		spend the whole day in attend lessons practise Spanish go on a trip have a varied programme It's going to be easy / cool	Lessons start / finish at We have lessons per day. Each lessons lasts minutes. Break / Lunch is at		for limiting freedom of expression for annoying the pupils to get good / bad grades lagree How awful How great One problem in my school is exam stress bullying peer pressure peer pressure peer pressure peer pressure are victims of intimidation are afraid of skive want to be part of the friendship group are a bad influence	

### YEAR 9— TRINITY TERM — SPANISH

te dan...

una sensación de logro más confianza la oportunidad de ser creativo/a la oportunidad de expresarte

they give you... a sense of achievement more confidence the opportunity to be creative

apuntarme al club de... vamos a...

stop doing it sign up for the ... c we are going to... put on a play

club

the opportunity to express yourself

conseguir...

achieve...

montar una obra de teatro

### YEAR 9— TRINITY TERM — STATISTICS — COLLECTION OF DATA

Vocabulary	
Primary data	Data you have collected yourself
Secondary data	Data that comes from published sources
Qualitative data	Data that uses words
Quantitative data	Data that uses numbers
Discrete data	Quantitative data that which is counted
Continuous data	Quantitative data which is measured
Bivariate data	Data sets that uses two variables
Ranked data	Discrete data that is put it order
Hypothesis	A hypothesis is a statement of belief about some aspect of a population
Control	A control in an experiment is designed to check the hypothesis, and is compared to the standard.
Population	All the data that you are interested in
Sample frame	A list that includes every population from which a sample is to be taken
Sample	A sample can be taken and used to make predictions about a population.
Pilot study	Using a small sample of data to see if meaningful results can be obtained

### Important Ideas

Categorical data can be sorted in to groups of data types.

You can carry out experiments or make observations to see if your hypothesis is supported by the data you collect.

	Question	Answer		frame BAD samples:
d	<ul> <li>Data types</li> <li>What type of data is the following: <ol> <li>Number of seagulls on a beach</li> <li>The weight of a bag of sugar</li> <li>The name of a town</li> <li>The score you got on your</li> </ol> </li> </ul>	<ol> <li>Quantitative – discrete</li> <li>Quantitative – continuous</li> <li>3) Qualitative</li> <li>Quantitative – discrete</li> <li>Quantitative - continuous</li> </ol>	Samples	<ul> <li>Are too small</li> <li>Are biased</li> <li>Are out of date people missic counted twice incorrect namilist</li> </ul>
	last test 5) The time taken to run a marathon			The DATA HAND CYCLE:
	Sampling Sarah wants to find out how many of the 250 students in his year bring a mobile phone to school. She decides to ask 10 of his friends (a) Write down two reasons why this is not a good	<ul> <li>(a) It's too biased - her friends are likely to do similar things - the sample is too small.</li> <li>(b) She should take a random sample of 30 or more using a list of all the students in her year.</li> </ul>	Designing investigations	<ul> <li>Specify the p and plan</li> <li>Collect data variety of so</li> <li>Process and the data</li> <li>Interpret and data</li> </ul>
	sample (b) Explain how Sarah could take a better sample			You can infer characteristics o
	Experimental design			population using
	Malique wants to know whether drinking a certain tea will help with weight loss. Design an experiment for Malique.	<ol> <li>Select two groups of people at random</li> <li>Weigh each person</li> <li>One group drink the tea.</li> <li>Re-weigh all the people after a certain amount of time.</li> </ol>	Estimation	estimation and s Proportion of sa that characteris population size



Key Facts & Formula

- GOOD samples:
- Are as large as possible •
- Are unbiased •
- Have a suitable time •
- all
- date, have sing or vice, ames on the

# IDLING

- problem
- a from a sources
- d represent
- nd discuss

of a ١g I sampling:

sample with istic x

# YEAR 9- TRINITY TERM - STATISTICS - COLLECTION OF DATA



Important Ideas		Question	Answer	Key Facts & For	mula			
•	you information about every member of the data can be less accurate and may be biased				Advantage	Disadvantage		
You can use summ characteristics	ary statistics to make estimates of population	Population and sampling		Questionnaire	Much     cheaper to do	Non-     response		
<b>Vocabulary</b> Random sampling	Every member of the population has an equal chance of being selected.	You want to find out the average amount of pocket money received by students in your school. Describe how you would get a random sample of 40 from a population of 748 students.	Get a list of all 748 students (a sample frame) and number them 1 to 748. Generate 40 random numbers (using a random number table or computer)		<ul> <li>Each person answering the question is treated the same way</li> </ul>	<ul> <li>People may misunder- stand some questions</li> </ul>		
Stratified sampling	Stratified sampling gives the different groups in the same sample an amount of representation that's proportional to how big they are in the population.		between 1 and 748. Match the 40 random numbers to the students to create the sample.	Interview	<ul> <li>Interviewer can explain complex questions</li> </ul>	<ul> <li>Interviewe r may be biased</li> <li>Can be</li> </ul>		
Judgement sampling	Uses judgement to select a sample that is representative of the population	Estimation			Interviewer     can follow up	costly		
Opportunity sampling	Uses the people or objects that are available at the time.	Evelyn captures 30 frogs from her garden pond and carefully marks each before	$\frac{30}{N} = \frac{10}{20}$		on unclear responses	- ha		
Cluster sampling	Used when the population is in groups. A random sample of these groups is selected and all items in the selected groups are include in the sample.	returning them to the water. The next day she captures 20 frogs and finds that 10 are marked. Estimate the number of frogs in her pond.	$\Rightarrow N = 60 \text{ frogs}$			$\frac{\mathbf{n}}{\mathbf{N}} = \frac{\mathbf{m}}{\mathbf{M}}$ Assumptions: No significant change to		
Quota sampling	Splitting the population into groups wit certain characteristics and selecting a given	Collection of data		Petersen Captur	population re- All membe	ers of the		
Systematic sampling	number from each group. Items are selected from the population at regular intervals either in time or in space.	Rajan plans to distribute his questionnaire abut public transport by handing out copies in his town centre	a) Advantage – it should be quick and cheap to carry out. Disadvantage – the	recapture	likely to be Capture an not affect	n are equally e captured. nd marking does recapture &		
Explanatory variable	The "cause" variable	a) Give one advantage and one disadvantage of Rajan's plan for collecting data	one disadvantage of Rajan's plan for	•		-	are not lost big enough to be ative	
Response variable	The "effect" variable	<ul> <li>b) B) Suggest one way</li> <li>Rajan could reduce the</li> </ul>	b) He could enter people who respond in a prize		each strat	a sample for		
Extraneous variable	A variable you are not interested in which could affect your results	number of non- responses	draw	Stratified sampli	ing stratum size	stratum size population size × number in sample		

# <u>YEAR 9— TRINITY TERM — SPORTS STUDIES- TABLE TENNIS</u>



	Extension skills:			
Y9 AIM: Develop skills and tactics in competitive situations.	<b>11. Do you have to serve diagonally in table tennis?</b> The ball must bounce once on your side of the table and once on your opponents side of the table. In doubles the ball must be played diagonally for example within the right half of the court only however in singles you can serve to and from any part of the table.			
Reference: https://tabletennisengland.co.uk/	12. How high do you have to throw the ball when you are serving? 6 inches			
Key skills:	13. What happens if the ball hits the net? The ball must pass 'cleanly' over the net. If the ball 'clips' the net and goes over it is a			
<b>1. What is the aim of table tennis?</b> The aim of table tennis is to score more points than your opponent by volleying the ball across the net and landing on the table.	'let' and the point is retaken. If the ball hits the net and doesn't go over the point goes to the other player / team. There second serves.			
2. When is a point won? A point is won by you if your opponent is unable to return the ball to your side of the table (e.g. they miss the ball, they hit the ball but it misses your side of the table, or the ball hits the net), or if they hit the ball before it bounces on their side of the table.	<ul> <li>14. How do you get spin on the ball? One of the biggest differences between recreational and competitive table tennis plathe ability to execute a spin shot. The advantage of executing a spin is that it makes it more difficult for your opponent to ret</li> <li>To generate a spin:</li> <li>1. Start your stroke below and behind the ball.</li> </ul>			
<b>3.</b> How is table tennis scored? The winner of a game is the first to 11 points. There must be a gap of at least two points between opponents at the end of the game though, so if the score is 10-10, the game goes in to extra play until one of the players has gained a lead of 2 points. The point goes to the player who successfully ends a rally, regardless of who	<ul> <li>2. Wait for the ball to bounce off your table upwards.</li> <li>3. Move your arm forward and upwards, brushing the ball at a "'/" angle from a high position.</li> <li>4. The ball's trajectory will arch downwards, picking up speed after it bounces off the table.</li> </ul>			
has served. A match can consist of the number of games you like, just make sure you agree this in advance!	<b>15. Where is table tennis most popular?</b> Many Asian countries are crazy about table tennis particularly China and South Korea. China are currently number one in the world but South Korea provide fierce competition and are currently second.			
<b>4. How big is the ball?</b> The ball has a diameter of 40mm and weighs only 2.7g.	<b>16. When did table tennis start in England?</b> Table tennis as we know it today started in England in the late 1880's. Game makers were trying to emulate the popularity of lawn tennis by developing indoor versions of it. As we can see it is still played in England			
5. What is a rally? The period where the ball is in play.	both competitively and recreationally.			
6. What is a let? A rally of which the point is not scored.				
7. What is a point? A rally of which the result is scored.				
<b>8. Who is the server and who is the receiver?</b> The server is the player due to strike the all first in the rally while the receiver is the player due to strike the ball second.	elf for the			
<b>9. How many players are on the table during a game?</b> A game of table tennis is played in either singles or doubles.	any yours			
<b>10.</b> How is the serve made? The serve is made from the end of the table with the server tossing the ball upward from the palm of the free hand and striking it as it descends so that it first bounces on the servers own court and then passing over the net bounces on the opponents court. There are no second serves.	How to get top spin on the ball.			

# <u>YEAR 9— TRINITY TERM — CITIZENSHIP- GOVERNANCE</u>

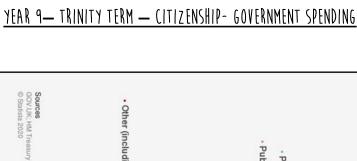


Number	Key term	Explained	Number	Key term	Explained
1	Democratic	Relating to or supporting democracy or its principles.	9	AMS	Additional Member System. a hybrid system with 2/3 FPTP and 1/3 regional list. Used in Scotland and Wales
2	Democratic deficit	Less democratic	10	Alternative vote	An electoral system whereby voters rank candidates in order of preference.
			11	British Constitution	This sets out how we are governed. The UK does not have one single document instead our constitution comes from many sources and has
3	direct democracy	purest form of democracy. A form of democracy in which all laws and policies imposed by governments are determined			been shaped over hundreds of years by different laws and events e.g. Magna Carta, Human Rights Act.
		by the people themselves, rather than by representatives who are elected by the people.	12	Sovereignty hugely pow when new and policy	This means that Parliament is the only body that can make laws. It is hugely powerful. It also means that UK law and policy can be changed when new Parliaments are formed, its adaptable. However, once law and policy are created by Parliament, all individuals and public bodies must follow it.
4	indirect democracy	is a type of democracy founded on the principle of elected officials representing a			
		group of people	13	European Parliament	The European Union has a parliament, which represents all member countries of the EU. This group have a say in plans that are developed for
5	legitimacy	the degree to which the government has the right to exercise power			Europe, often involving trade and employment. The UK has now started the process of leaving the EU.
6	political	opportunities to become involved in the			
	participation	political process	14	National Parliament	This is what most people think of when they imagine politics. Our national Parliament is based in Westminster. The elected body (MPs) sit in the House of Commons and have the power (along side the rest of Parliament) to make laws and shape national policy.
7	referendum	a popular vote on a specific question			
			15	Local council	Councillors are elected by citizens who live in their ward. They cannot
8	Absolute majority	where an MP gains over 50% of the vote			make laws, but they can make decisions about your local area, they air to improve your local area.

# <u>YEAR 9— TRINITY TERM — CITIZENSHIP- GOVERNANCE</u>



Number	Key term	Explained	Number	Key term	Explained
16	Misters whips	Whips are MPs or members of the House of Lords appointed by each party to inform and organise their own members in Parliament. One of their responsibilities is to make sure that their members vote in divisions, and vote in line with party policy. It	20	Manifesto	A manifesto is a publication issued by a political party before a General Election. It contains the set of policies that the party stands for and would wish to implement if elected to govern.
	is the party whips, along with the Leader and Shadow Leaders of each House, that negotiate behind the scenes to arrange the day to day business in Parliament - a process often referred to as 'the usual channels'.	21	Legislation	Legislation is a law or a set of laws that have been passed by Parliament. The word is also used to describe the act of making a new law.	
			22	Bishops	As senior members of the Church of England, which is the established church, some bishops are entitled to sit in the House of Lords. The Archbishop of Canterbury, the Archbishop of York,
17	Cabinet	The Cabinet is the team of 20 or so most senior ministers in the Government who are chosen by the Prime Minister to lead on specific policy areas such as Health, Transport, Foreign Affairs or Defence.			the Bishops of London, Durham and Winchester and 21 other bishops in order of seniority together form the Lords Spiritual.
18	Shadow Cabinet	The Shadow Cabinet is the team of senior spokespeople chosen by the Leader of the	23	Crossing the floor	To cross the floor in Parliament means to change sides: to leave one political party and join another.
		Opposition to mirror the Cabinet in Government. Each member of the shadow cabinet is appointed to lead on a specific policy area for their party and to question and challenge their counterpart in the Cabinet. In this way the Official Opposition seeks to present itself as an alternative government-in- waiting.	24	Dissolution	Dissolution is the official term for the end of a Parliament before a general election. When Parliament is dissolved every seat in the House of Commons becomes vacant. MPs immediately revert to being members of the general public and those who wish to become MPs again must stand for election as candidates.
19	Backbenchers	Backbenchers are MPs or members of the House of Lords that are neither government ministers nor opposition Shadow spokespeople . They are so called because, in the Chamber, they sit in the rows of benches behind their parties' spokespeople who are known as frontbenchers.	25	Frontbench (frontbenchers)	A frontbencher is either a Government minister or an Opposition shadow spokesperson. They are so-called because they occupy the front benches on either side of the Chamber when the House is in session, with other party members - backbenchers - sitting behind them.



Defense 55

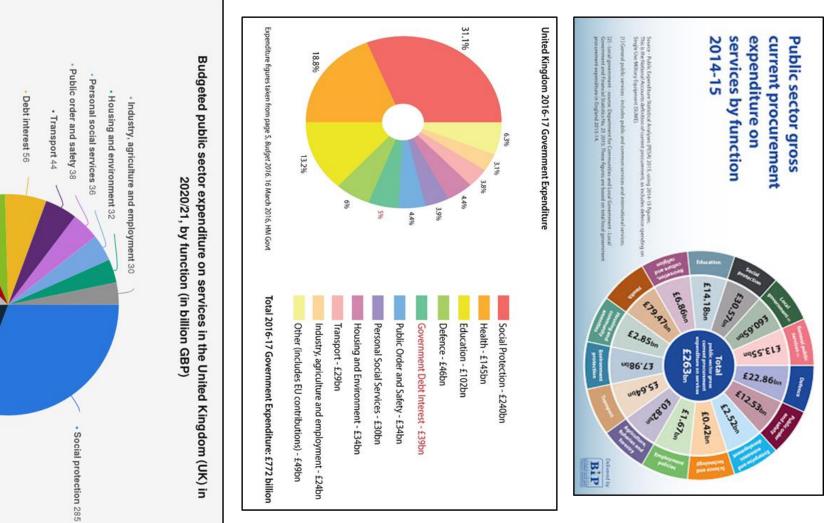
Other (including EU transactions) 58

Education 116

Health 178

Additional Information: United Kingdom; HM Treat

ury; 2020





### YEAR 9— TRINITY TERM — BUSINESS ENTERPRISE — INTRODUCTION TO BUSINESS ENTERPRISE



#### Box 1: - 2.1.4 Place Box 2: - 2.1.5 Price Factors affecting place: Price = manufacturing costs + marketing costs + design costs + packaging costs + distribution costs + customer location testing & market research costs + staff costs + taxes + bank charges + website costs + PROFIT location of raw materials Cost plus pricing • transport and infrastructure links For example, The Sweet Factory has produced a new product, Chomp Bar – a delicious mix of • availability of staff chocolate, nuts, raisons and caramel. Channels of distribution The cost of this product (before profit) is 50p. Agent - do not own the products, they sell on behalf of manufacturer You could simply decide on the amount of profit you want to make for each bar and add this to the and then usually get a commission from the sale. cost. There are two ways doing this: • Using a mark-up – eg work out the cost and add a percentage, so if you wanted a 100% mark up Wholesaler – buys in bulk and re-sells smaller quantities to retailers. the bar would cost £1.00 This means lower profit margins for the manufacturer. • Using a profit margin – eg work out the cost and add the percentage profit margin, so if you wanted a 20% mark up and the product costs 50p to make then 80% = 50p, therefore 100% = 62.5pRetailer - retailers can a purchase product to sell from wholesalers or which would be rounded up to 63p manufacturers. They sell directly to the end-users. **Equilibrium Price** Direct - the manufactures sells directly to the customers; often via The market price (the price we pay) is based on the supply and the demand for the product or mail order or online (e-commerce). service. If supply is low and consumer demand is high then this will make the product more expensive. If there is a large supply of the produce and people do not want to buy it (low demand) Ecommerce then the price will be low. The equilibrium price is the price where supply and demand cross. Electronic commerce or e-commerce is a term for any type pf business Price skimming : - This is where you charge a high price to that involves the transfer for information across the internet. It is Price A begin with as you expect there to be a high demand for this currently one of the most important aspects of the internet. new product. This works well for established firms with a Ecommerce enables businesses to sell their products to customers good customer base, who are will to pay more. Sometimes a which no barriers of time or distance. An online store enables Equilibrium higher price can make a product more desirable and customers to purchase products and services and you can place the improve the firms' image. After it's established, the price is items in a virtual shopping basket, check out and complete the lowered to help it become a mass market product. transaction by providing payment information Quantity How much do consumers in the UK spend online? • UK households spent the equivalent of \$5,900 (£4,611) using Penetration pricing payment cards online in 2015 (UK Cards Association). This is where you charge a very low price, as the product is new, to encourage customers to try it.

• Online shoppers in the UK spend more per household than individuals in any other country, (Research from the UK Cards Association).

This is where you charge a very low price, as the product is new, to encourage customers to try it. This is a good way to gain a market share in a competitive market. Once the product is established the price rises as loyal customers continue to buy.

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### Box 2 continue.....

### **Psychological pricing**

Psychological pricing is where the product is priced a figure that may appeal more to a consumer, for example 99p appears to be better value than £1.

### Loss leaders

The products price is set below the cost of producing it – there is no profit made on the product. This is usually used when the consumer will buy another product at the same time which makes a profit. For example, games consoles may not make a profit, however, there is profit in the actual games for the consoles.

**Competitive pricing:** - This is where the business charges similar or the same prices for their products as their competitors. For example, petrol stations usually charge very similar prices.

**Promotional pricing:** - is usually time limited to create a surge in demand for a product. They can appear to be more valuable than similar products on the market. For example, buy one get one free or 50% discount.

Box 3: -2.1.6 Promotion How do businesses advertise?

- Newspapers (local & national)
- Magazines
- Posters & bill boards
- Leaflets & flyers
- TV adverts
- Radio adverts
- Internet

### Box 3 continue ....

Examples of sales promotion include,

- Competitions
- for 1 offers
- Free samples
- Coupons
- Point of sale displays
- Free gifts e.g. comes with free toy

**Personal selling** is a face-to-face selling technique by which a salesperson uses his or her interpersonal skills to persuade a customer in buying a particular product.

**Direct marketing** is a form of advertising in which companies provide physical marketing materials to consumers to communicate information about a product or service.

What is the difference between Personal Selling and Direct Marketing?

• Personal selling is more for products and services that are complex in nature and cannot sell off the shelves on their own such as financial products.

• Direct marketing is a selling technique that involves making direct contact with the intended customer through phone calls, emails, offers through newspapers and magazines etc.

• Direct marketing is more aggressive than personal selling that appears like an attempt to arm the client with important information at first.

• There is an emphasis on building up a relationship with the customer in personal selling whereas direct marketing seeks to impress upon the benefits of the offer.

• Personal selling is the oldest form of selling while direct marketing is being used increasingly by small and big companies to increase their sales.

Box 3 continue ...

### Businesses have a range of promotional objectives:

- increasing consumer knowledge
- increasing market share
- communicating with customers
- encouraging purchasing
- developing customer loyalty

### Box 4: - 2.2 Market Research and Markets

### 2.2.1 Data Types

Qualitative data cannot be expressed as a number. Data that represent nominal scales such as gender, religious preference, opinions and preferences are usually considered to be qualitative data.



### Quantitative data is

anything that can be expressed as a number, or quantified. Examples of quantitative data are scores on tests, number of hours of study, or weight of a person.



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<ul> <li>Box 5: - 2.2.2 Primary Research</li> <li>Primary research (field research) involves gathering new data that has not been collected before. For example, surveys using questionnaires or interviews with groups of people in a focus group.</li> <li>Advantages and disadvantages of primary research: <ul> <li>data has been collected personally to its relevant to the property.</li> </ul> </li> </ul>	<ul> <li>Box 7: - 2.2.4 Market types</li> <li>Mass Market: -is a large, general market consisting of consumers belonging to various age groups, lifestyles and preferences. If a company manufactures a product which is useful to a wide range of consumers across various sectors and appeal to a large group of people.</li> <li>high number of sales</li> </ul>	Box 9:- 3.1 Operations Management 3.1.1 Outsourcing Outsourcing (also sometimes referred to as "contracting out") is a business practice used by companies to reduce costs or improve efficiency by shifting tasks, operations, components, jobs or processes to an external contracted third party for a significant period of time.
<ul> <li>research</li> <li>sample size can be selected by the researcher</li> <li>research has full control of how and where they collect information from</li> <li>information is up to date</li> <li>it belongs to the business, so they don't need to share to with competitors</li> <li>expensive to collect</li> <li>it can take all long time to process information</li> <li>if researcher makes a mistake it's hard to tell as there is nothing to compare to with</li> </ul>	<ul> <li>Ingrindinger of sales</li> <li>large number of competitors</li> <li>wide customer base</li> <li>profit margins low</li> <li>Niche Market: - is the subset of the market on which a specific product is focused. Niche markets are usually a small, specialised market for a particular product or service.</li> <li>sales volume low</li> <li>small number of customers</li> <li>specialized products</li> </ul>	<ul> <li>Advantages for outsourcing include:</li> <li>improved focus on core business activities - outsourcing can free up your time to spend on other aspects of the business</li> <li>increased efficiency - choosing an outsourcing company that specialises in the process or service you want means its more efficient and may be of higher quality.</li> <li>increased reach – you can do have access to new equipment of skills so you can do more things or make new products</li> </ul>
Box 6: - 2.2.3 Secondary Research Secondary research (desk research) involves gathering existing data that has already been produced. For example, researching the internet, newspapers and company reports. Advantages and disadvantages of secondary research: • not expensive • easily accessible • immediately available • provides good background information • not always recent • not always specific • may get 'false' results as lack of control over the data	<ul> <li>high profit margins</li> <li>Box 8: - 2.2.5 Orientation types</li> <li>Product orientation         <ul> <li>A company that follows a product orientation chooses to ignore their customer's needs and focus only on efficiently building a quality product. This type of company believes that if they can make the best 'breakfast cereal,' their customers will come to them.</li> </ul> </li> <li>Market orientation         <ul> <li>A market orientated company is one that organises its activities, products and services around the wants and needs of its customers.</li> </ul> </li> </ul>	<ul> <li>Disadvantages of outsourcing include:</li> <li>service delivery - which may not be to your expected standard</li> <li>confidentiality and security – the outsourcing company will have access to your information</li> <li>lack of flexibility – may be hard to adjust to your way of working.</li> <li>instability - the outsourcing company could go out of business</li> </ul>

# YEAR 9— TRINITY TERM — PSHE— ALCOHOL



Strength (ABV) x volume (ml) ÷ 1,000 = units

For example, to work out the number of units in a pint (568ml) of strong lager (ABV 5.2%): 5.2 (%) x 568 (ml) ÷ 1,000 = 2.95 units

### Alcohol and the Law

### It is against the law

- To sell alcohol to someone under 18 anywhere.
- For an adult to buy or attempt to buy alcohol on behalf of someone under 18.
- For someone under 18 to buy alcohol, attempt to buy alcohol or to be sold alcohol.
- For someone under 18 to drink alcohol in licensed premises,
- For an adult to buy alcohol for someone under 18 for consumption on licensed premises,
- To give children alcohol if they are under five.

### It is not illegal:

- For someone over 18 to buy a child over 16 beer, wine or cider if they are eating a table meal together in licensed premises at the discretion of the manager.
- For a child aged five to 17 to drink alcohol at home or on other private premises.

### Signs of Alcohol Addiction

It can be tricky to spot the signs of alcoholism as alcoholics can be secretive about it and can become angry if confronted. Some signs and symptoms can include:

- A lack of interest in previously normal activities
- Appearing intoxicated more regularly
- Needing to drink more in order to achieve the same effects
- Appearing tired, unwell or irritable
- An inability to say no to alcohol
- Anxiety, depression or other mental health problems
- Becoming secretive or dishonest

### Who Can you turn to for help and Support

Parents or trusted family membe	ərs	School Safe Guarding Team or any member of staff.
Y	our GP or Pr	actice Nurse.
Drink Aware		10 (weekly 9am - 8pm, weekends 11am - 4pm) v.drinkaware.co.uk
Al-Anon Family Group	0800 0086 811 from 10 am - 10 pm, 365 days a year https://www.al-anonuk.org.uk/	
AddAction	https://www.addaction.org.uk - Webchat facility	

### Define: Alcohol

While some drinks have more alcohol than others, the type of alcohol in all alcoholic drinks is the same – it's a type of alcohol called ethanol. Alcohol is a colourless, odourless and inflammable fluid.

### Define: ABV

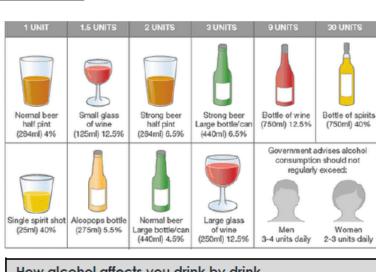
Alcohol by volume is a standard measure of how much alcohol (ethanol) is contained in a given volume of an alcoholic beverage (%).

# Alcohol

Units are a simple way of expressing the quantity of pure alcohol in a drink. One unit equals 10ml or 8g of pure alcohol, which is around the amount of alcohol the average adult can process in an hour.

### Define: Binge Drinking

Consuming large quantities of alcohol in a short space of time. This is 8 units in a single session for men and 6 units in a single session for women.



How alcohol affects you drink by drink

Based on a standard (175ml) 13% volume glass of white wine or 4% strength pint of lager,

### 1 glass of white wine or a pint of lager (just over 2 units):

- You're talkative and feel relaxed.
- Your self-confidence increases.
- Driving ability is already impaired, which is why it's best to drink no alcohol if you're driving.

### 2 glasses of white wine or 2 pints of lager (just over 4 units):

- Your blood flow increases.
- You feel less inhibited and your attention span is shorter.
- You start dehydrating, one of the causes of a hangover.

### 3 glasses of white wine or 3 pints of lager (just under 7 units):

- Your reaction time is slower.
- Your liver has to work harder.
- Your sex drive may increase, while your judgement may decrease.

### 4 glasses of white wine or 4 pints of lager (just over 9 units):

- You're easily confused.
- You're noticeably emotional.
- Your sex drive could now decrease, and you may become less capable.

Define: Unit of

## <u>YEAR 9— TRINITY TERM — PSHE— GENDER AND SEXUALITY</u>



Define: Asexual	Define: Sexuality	Define: Intersex	Important legal changes that have affected LGBTQ+	Trans Teens and Children
A person who generally does not experience sexual attraction to any group of people	A persons sexual preference or orientation. Who they are attracted to.	A person with a set of sexual anatomy that doesn't fit within the labels of female or male (e.g., XXY phenotype, uterus, and penis)	People in the UK     2000: Government lifts the ban on lesbians and gay men serving in the Armed Forces.	If a child is under 18 and thought to have gender dysphoria, they'll usually be referred to a specialist child and adolescent Gender Identity Clinic (GIC). Treatment is arranged with a multi-disciplinary team (MDT). This is a group may include specialists such as mental health professionals and paediatric endocrinologists. Most treatments offered at this stage
Define: Androgyny	Define: Drag Queen	Define: Pansexual	<ul> <li>2001: Age of consent for gay/bi men is lowered to 16.</li> </ul>	are psychological, rather than medical or surgical. If the child is diagnosed with gender dysphoria and they've reached
A gender expression that has elements of both masculinity and femininity	A man who dresses up in an exaggerated feminine form usually in a show or theatre setting.	A person who experiences sexual, romantic, physical, and/or spiritual attraction for members of all gender	<ul> <li>2002: Equal rights are granted to same-sex couples applying for adoption.</li> </ul>	puberty, they could be treated with gonadotrophin-releasing hormone (GnRH) analogues. These are synthetic hormones that suppress the hormones naturally produced by the body. They also suppress puberty and can help delay potentially distressing physical changes caused by the body becoming even more like that of the biological sex, until they're
Define: Biological Sex	Define: Gender Dysphoria	identities/expressions Define: Transgender	<ul> <li>2003: Repeal of Section 28 - Section 28 was a law that made it illegal to talk positively about homosexuality in schools.</li> </ul>	old enough for other treatment options. The effects of treatment with GnRH analogues are considered to be fully reversible, so treatment can usually be stopped at any time.
The physical anatomy and gendered hormones one is born with.	Where a person experiences distress due to a mismatch of their	A person whose gender identity is the binary opposite	<ul> <li>2003: A new law comes into force protecting LGBT people from</li> </ul>	Teenagers who are 17 years of age or older may be seen in an adult gender clinic. They are entitled to consent to their own treatment and follow the standard adult protocols.
Define: Bisexual	biological sex and their gender identity.	of their biological sex, who may undergo medical treatments to change their	discrimination at work. Until 2003 employers could discriminate against LGBT people by not hiring	Gender Reassignment surgery will not be considered until a person has reached 18 years of age.
Define: Disexour				
A person who experiences sexual.	Define: Heterosexual	biological sex	them or not promoting them, just because of their sexual orientation or gender identity.	Schools and LGBTQ+ Students
A person who	2011101	biological sex Define: Transsexual A person whose gender identity is the binary opposite of their biological sex, who may undergo medical	because of their sexual orientation	Schools and LGBTQ+ Students All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and appropriate external agencies involved in the students care.
A person who experiences sexual, romantic, physical, and/or spiritual attraction to people of their own gender as well as	Heterosexual A medical definition for a person who is attracted to someone with the	Define: Transsexual A person whose gender identity is the binary opposite of their biological sex, who	<ul> <li>because of their sexual orientation or gender identity.</li> <li>2004: Civil Partnership Act is passed.</li> <li>2004: Gender Recognition Act is passed - This Act allowed trans people to change their legal gender. This means that they can get a new birth certificate that</li> </ul>	All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and
A person who experiences sexual, romantic, physical, and/or spiritual attraction to people of their own gender as well as another gender Define: Cisgender A description for a person whose gender identity, gender expression, and	Heterosexual A medical definition for a person who is attracted to someone with the other gender. Define: Homosexual A medical definition for a person who is attracted to someone with the	Define: Transsexual A person whose gender identity is the binary opposite of their biological sex, who may undergo medical treatments to change their	<ul> <li>because of their sexual orientation or gender identity.</li> <li>2004: Civil Partnership Act is passed.</li> <li>2004: Gender Recognition Act is passed - This Act allowed trans people to change their legal gender. This means that they can get a new birth certificate that reflects who they really are, which helps for future legal processes like marriage.</li> </ul>	All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and appropriate external agencies involved in the students care. Where to get more help and support • Parents and trusted family members
A person who experiences sexual, romantic, physical, and/or spiritual attraction to people of their own gender as well as another gender <b>Define:</b> Cisgender A description for a person whose gender identity,	Heterosexual A medical definition for a person who is attracted to someone with the other gender. Define: Homosexual A medical definition for a person who is attracted	Define: Transsexual A person whose gender identity is the binary opposite of their biological sex, who may undergo medical treatments to change their biological sex Define: Gender Identity Gender identity is a way to	<ul> <li>because of their sexual orientation or gender identity.</li> <li>2004: Civil Partnership Act is passed.</li> <li>2004: Gender Recognition Act is passed - This Act allowed trans people to change their legal gender. This means that they can get a new birth certificate that reflects who they really are, which helps for future legal processes like marriage.</li> <li>2007: It becomes illegal to discriminate against people because of their sexual orientation</li> </ul>	All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and appropriate external agencies involved in the students care. Where to get more help and support
A person who experiences sexual, romantic, physical, and/or spiritual attraction to people of their own gender as well as another gender Define: Cisgender A description for a person whose gender identity, gender expression, and	Heterosexual A medical definition for a person who is attracted to someone with the other gender. Define: Homosexual A medical definition for a person who is attracted to someone with the	Define: Transsexual A person whose gender identity is the binary opposite of their biological sex, who may undergo medical treatments to change their biological sex Define: Gender Identity	<ul> <li>because of their sexual orientation or gender identity.</li> <li>2004: Civil Partnership Act is passed.</li> <li>2004: Gender Recognition Act is passed - This Act allowed trans people to change their legal gender. This means that they can get a new birth certificate that reflects who they really are, which helps for future legal processes like marriage.</li> <li>2007: It becomes illegal to discriminate against people</li> </ul>	All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and appropriate external agencies involved in the students care. Where to get more help and support Parents and trusted family members Teachers and School Staff including School Nurse and
A person who experiences sexual, romantic, physical, and/or spiritual attraction to people of their own gender as well as another gender <b>Define:</b> Cisgender A description for a person whose gender identity, gender expression, and biological sex all align	Heterosexual         A medical definition for a person who is attracted to someone with the other gender.         Define: Homosexual         A medical definition for a person who is attracted to someone with the same gender.	Define: Transsexual         A person whose gender         identity is the binary opposite         of their biological sex, who         may undergo medical         treatments to change their         biological sex         Define: Gender         Identity         Gender identity is a way to         describe how you feel about         your gender. You might	<ul> <li>because of their sexual orientation or gender identity.</li> <li>2004: Civil Partnership Act is passed.</li> <li>2004: Gender Recognition Act is passed - This Act allowed trans people to change their legal gender. This means that they can get a new birth certificate that reflects who they really are, which helps for future legal processes like marriage.</li> <li>2007: It becomes illegal to discriminate against people because of their sexual orientation or gender identity when providing</li> </ul>	All Schools are required to have a policy relating to LGBTQ+ Students and how they are supported in schools. However each case will be dealt with on an individual basis as to what is best for the students. Discussions will be conducted with Safe guarding team, parents, wellbeing teams and appropriate external agencies involved in the students care. Where to get more help and support Parents and trusted family members Teachers and School Staff including School Nurse and Wellbeing Team

Couples) Act is passed.

Some of these terms are controversial in their definitions and may mean slightly different things to different people. These definitions have been taken from Stonewall charity.

 2013: The Marriage (Same-Sex) Friends and Family of Lesbians and Gays: • https://www.fflag.org.uk/

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