

YEAR & KNOWLEDGE ORGANISER

LENT TERM

Name:

Family Group:



















LEARNING - LOVING - LIVING

KNOWLEDGE ORGANISER GUIDANCE

The knowledge organiser is a book of **EVERYTHING** that you should know (and remember) for the whole term.

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 checked in Family Group time and detentions issued for work not complete, or not up to standard.

SUBJECT HOMEWORK

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

Students in years 9-11 will also be provided with additional subject homework to be completed throughout the week. It is also recommended to take advantage of FREE online revision tools such as www.senecalearning.com or the recently updated BBC BITESIZE.

It is also recommended that students regularly **READ** a variety of **fiction and non fiction books** of their choosing. This extra reading will develop and broaden general understanding and context in all subjects.

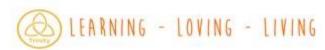


<u>HOMEWORK TIMETABLE</u>						
Year 8	Subject 1	Subject 2	Subject 3			
Monday	Maths	History	PE			
Tuesday	English	Geography	ICT			
Wednesday	Maths	RE	Music			
Thursday	English	Science	Creative			
Friday	Maths	Languages	Drama			

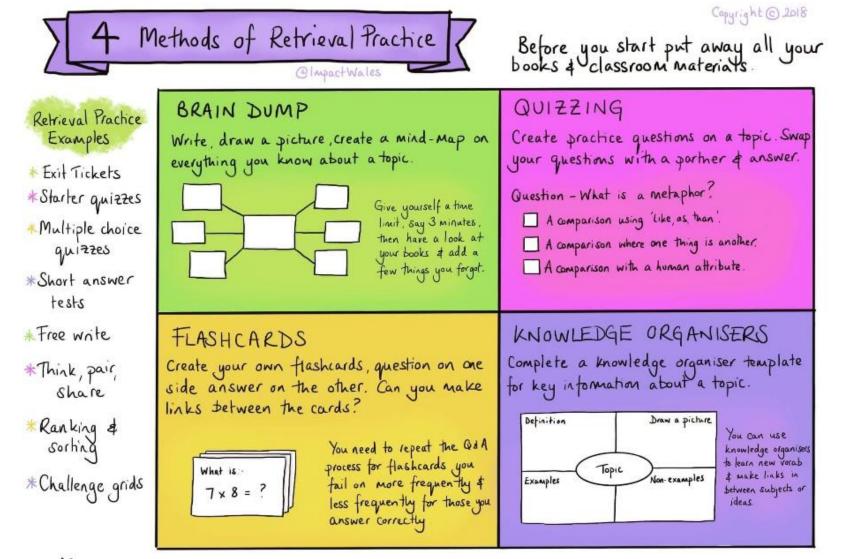
HOMEWORK CHECKLIST

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
		Half	term		
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6

RETRIEVAL ACTIVITY IDEAS



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 of check what you've missed. Next time focus on that missing information

THE SCIENCE OF LEARNING - HOW TO REVISE EFFECTIVELY



DUAL CODING

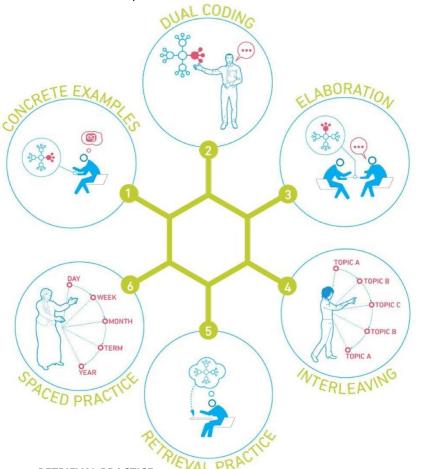
Dual coding is the process of combining visual and written materials. You can visually represent materials using methods such as info graphics, timelines, cartoon/comic strips, diagrams and graphic organisers. Combing images with words or explaining an image makes it more likely to 'stick'.

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.

INTERVEAVING

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



Voc	Vocabulary Definition Vocabulary Definition					finition	
	apulary T			<u> </u>			
1	Itinerant workers	Workers who travel from place to place looking for employment	19	Misogyny	Ingi	rained dislike or prejudice towards women	
2	Animalistic	Characteristic of animals.	20	Disparaging	Ехр	ressing the opinion that something is of little worth	
3	Irascible	Easily angered	21	Ostracise	Exc	luded from a group or society	
4	Infantile	Childlike or babyish behaviour	22	Ignorance	Lac	k of awareness	
5	Futile	Incapable of producing any useful result; pointless	23	Judicious	Sho	owing good judgement	
6	Morosely	In a withdrawn, thoughtful or depressed way.	24	Gravitas	Dig	nity, serious, solemnity of manner	
7	Disempower	Make someone less powerful or confident	25	Evoke	brir	nging strong images, memories, or feelings to mind	
8	Disconcerting	causing one to feel unsettled	26	Disconsolate	Ver	y unhappy and unable to be consoled	
9	Apprehensive	Anxious or fearful that something bad or unpleasant will happen.	27	Disenfranchised	Dep	orive someone of a right or privilege	
10	Sceptical	Not easily convinced.	30	Domineering	ass	ert one's will over another in an arrogant way.	
11	Immense	Extremely large or great	31	Discrimination		unjust or prejudicial treatment of different categories of people, ecially on the grounds of race, age, or sex.	
12	Naïve	Showing a lack of experience, wisdom or judgement (childlike)	32	Nostalgic	a se	entimental longing or wistful affection for a period in the past	
13	Paternal	Of or appropriate to a father.	33	Bucolic	Rela	ating to the pleasant aspects of the countryside.	
14	Patriarchy	Of or appropriate to a father.	34	Marginalisation	To i	solate someone and make them feel unimportant.	
15	Feminist	A person who supports the rights of women.	Them	es and context			
16	Subjugation	To dominate or control someone or something.	Steinbeck encourages us to empathise with the plight of migrant workers during the Great Depression. Steinbeck reveals the predatory nature of mankind: the powerless are targeted by the powerful.				
17	Hyper- masculinity	An exaggeration of traditionally masculine traits or behaviour.		merican Dream is shown to be ssible: reality defeats idealism.		Steinbeck explores the tension between the inevitability of fate and the fragility of human dreams .	
18	Derogatory	Showing a critical or disrespectful attitude	1	ovella explores the human need for anionship and the tragedy of ness.	or	Steinbeck explores <i>prejudice</i> and the <i>discrimination</i> of individuals because of their <i>race</i> or <i>gender</i> .	

YEAR & — LENT TERM- ENGLISH — OF MICE AND MEN



Voca	bulary	Definition	Example
1	Isolation	Being alone or apart from others	Curley's wife felt a sense of <i>isolation</i> as her husband did not like talking to others.
2	Racism	Prejudice, discrimination, or antagonism directed against someone based on the belief that one's own race is superior.	Crooks was subjected to <i>racism</i> . He believed that people didn't listen to him as he was "just a ***** talkin."
3	Segregation	The action or state of setting someone or something apart from others	Crooks feels separated from the other workers, "I ain't wanted in the bunkhouse, and you ain't wanted in my room."
4	Migrant	A person who moves from one place to another in order to find work or better living conditions.	George and Lennie are migrant workers. They move from place to place to find work. Usually, migrants would travel alone.
5	Cyclical	Occurring in cycles; recurrent The structure	The structure of OMAM is cyclical. There is a sense of things being repeated giving a sense that things are inevitable
6	Hierarchy	A system in which members of an organization or society are ranked according to relative status or authority.	'Curley's father is at the top of the hierarchy as he is the boss of the ranch.
7	Loneliness	Sadness because one has no friends or company.	'Curley's wife feels a sense of <i>loneliness</i> as she is not allowed to have friends on the ranch.
8	The American Dream	The ideal by which equality of opportunity is available to any American, allowing the highest aspirations and goals to be achieved.	George and Lennie's dream of owning a farm and living off the 'fatta the lan' symbolizes this dream.
9	Great Depression	A long and severe recession in an economy or market.	In October 1929, millions of dollars were wiped out in the Wall Street Crash. This led to the <i>Great Depression</i> , which crippled the country between 1930 and 1936.
10	The Dustbowl	An area of land where vegetation has been lost and soil reduced to dust and eroded, especially because of drought or unsuitable farming practice.	The <i>dustbowl</i> was a key reason why workers had to move so regularly due to land being dry and them not being able to farm there.
Tern	ninology	Definition	Example
Anin	nal Imagery	Animal attributes are imposed upon non-animal objects and humans.	"He walked heavily, dragging his feet a little, like a bear drags his paws."
Fore	shadowing	To give an indication of what is to come.	We get a hint of the final death through the killing of the mouse and puppy.
Symi	bolism	The use of symbols to represent ideas or qualities.	Candy's dog represents the fate of those who are weak and the dream farm, symbolizes unattainable independence and protection from the world.
Sem	antic field	A group of words, which relate to a common theme or motif.	Curley's wife is presented as dangerous through a semantic field of colour imagery, "She had full, <i>rouged lips</i> Her fingernails were <i>red</i> . Her hair hung in little rolled clusters, <i>like sausages</i> ."
Moti	if	A reoccurring subject, image or idea in a text.	Motif of <i>loneliness</i> shown through George's solitaire card game.
Meta	aphor	A figure of speech, which is not literal.	Curley is a terrier.

Context

John Steinbeck was born in Salinas, California in 1902. Although his family was wealthy, he was interested in the lives of the farm labourers and spent time working with them. He used his experiences as material for his writing.

On October 29 1929, millions of dollars were wiped out in the Wall Street Crash. It led to the people losing their life savings and a third of America's population became unemployed. (A series of drought in southern mid-western states like Kansas, Oklahoma and Texas led to failed harvests and dried-up land. Farmers were forced to move off their land: they could not repay the bank loans which had helped buy the farms and had to sell what they owned to pay their debts. Racism/sexism were common, especially in Southern states due to economic climate and history of slavery.

YEAR 8 — LENT TERM- ENGLISH — CIVIL RIGHTS



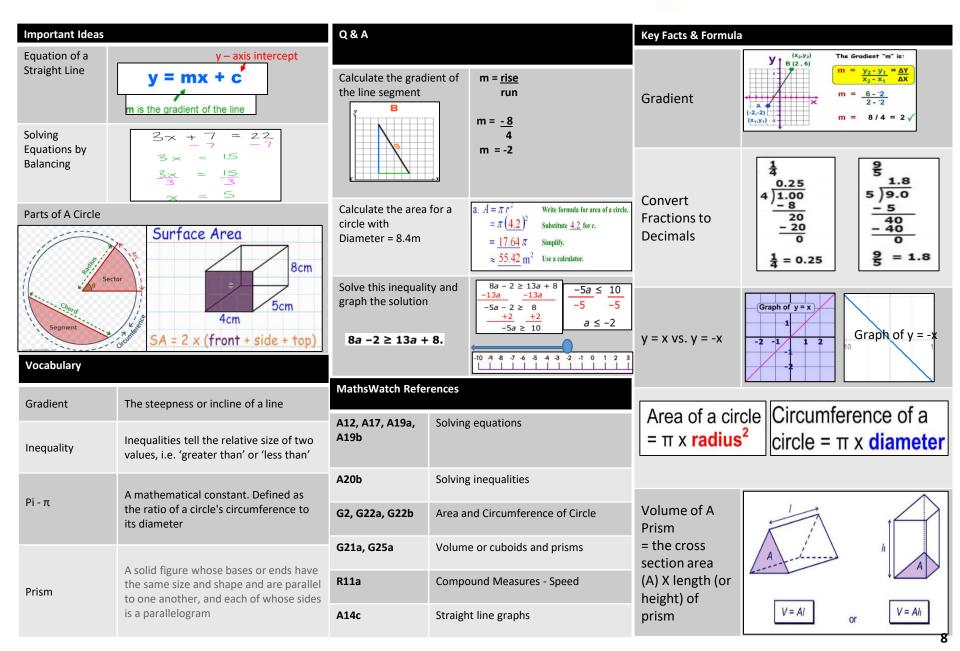
	l a a w	l			
Technique	Definition	Example			
Anaphora	Repetition of a word or phrase at the start of a clause or sentence.	They have something to say to every minister of the gospel who has remained silent behind the safe security of stained-glass windows. They have something to say to every politician who has fed his constituents with the stale bread of hatred and the spoiled meat of racism' – Martin Luther King (Eulogy)			
Hypophora	Asking a question then answering it straight afterwards	Why is America – why does this loor politicians are going to come into th	n to be such an explosive political year? Because this is the year of politics. This is the year when all of the white e Negro community.' – Malcolm X		
Anadiplosis	Repeating the last word of one clause or sentence as the first word of the next.	And so even though we face the diff Luther King (I have a dream)	iculties of today and tomorrow, I still have a dream. It is a dream deeply rooted in the American dream." – Martin		
Antithesis	First you mention one thing, then you mention another. Both elements are often opposites	Kings die and beggars die; rich men a	and poor men die; old people die and young people die' – Martin Luther King		
Parallelism	Giving two or more parts of the sentences a similar form and structure so as to give the passage a definite pattern	'It is not aristocracy for some of the	people, but a democracy for all of the people.' – Martin Luther King (Eulogy)		
Epistrophe	Repetition of a word of phrase at the end of a clause or sentence	'With this faith we will be able to wo Luther King (I have a dream)	rk together , to pray together , to struggle together , to go to jail together , to stand up for freedom together' Martin		
Tricolon	Three ideas in a row	'These children—unoffending, innoce	ent, and beautiful' – Martin Luther King (Eulogy)		
Imperative	Giving a command or order to the listener or audience	'Go back to Mississippi, go back to Al	abama, go back to South Carolina, go back to Georgia, go back to Louisiana' – Martin Luther King (I have a dream)		
Appeal	Definition				
Ethos	An appeal to the authority of credibility of the speaker. It is how wel	I the presented convinces an audience	that they are qualified to present (speak) on the particular subject		
Logos	This is logical appeal or the simulation of it, and the term <i>logic</i> is der information makes the speaker look knowledgeable and prepared to		ribe facts and figures that support the speaker's claims or thesis. Having a logos appeal also enhances ethos because		
Pathos	It is an appeal to the audience's emotions, and the terms <i>pathetic</i> and	nd <i>empathy</i> are derived from it. It can b	be in the form of metaphor, simile, a passionate delivery, or even a simple claim that a matter is unjust		
Structure	Purpose	Civil Rights Context			
Exordium	establish your connection with the audience and grab their attention	·	r King delivers Eulogy for Martyred Children		
Narration	set out your definitions and facts with brevity, clarity, plausibility	28 th August 1963 – Martin Luther Kin	g delivers 'I Have a Dream speech		
Division	summarises the agreements and disagreements with your opponents	8 th March 1964 – Malcolm X delivers	The Ballot or the Bullet Speech		
Probation	set out your arguments with authority, analogy and evidence	2 nd July 1964: Civil Rights Act signed			
Refutation	smash your opponents' arguments	8 th January 2008 - Barack Obama de	livers 'Yes we Can' speech		
Peroration	connect into your audience's emotions				
Vocabulary	Definition	Vocabulary	Definition		
Diametrically Opposed	Complete opposites	Conciliatory	Intended to placate, pacify or help stop argument		
Pacifist	Opposed to violence	Militant	Aggressive		
	†	Rousing	Persuasive, stirring or inspirational		
Advocate	a supporter	I -			
Advocate An impasse	A barrier that cannot be overcome	Eulogy	A speech or piece of writing about someone who has just died		
	· · ·	Eulogy Martryr	A speech or piece of writing about someone who has just died A person who is killed because of their beliefs.		

YEAR & — LENT TERM- MATHEMATICS — RATIO, FRACTIONS, DECIMALS AND PERCENTAGES



				_					
Vocabulary			QUESTION	ANSWER	KEY FACTS	AND	FORMULA		
Numerator, denominator percent	denominator Means out of	the top number in a fraction, is the bottom number 100 hich someone or something moves or	$\frac{4 \div 2}{7 \cdot 5}$ Dividing fractions	$\begin{bmatrix} \frac{2}{7} & x & \frac{5}{2} = \frac{10}{7} = 1 \frac{3}{7} \end{bmatrix}$ Dividing fractions is the same as multiplying by the reciprocal	Converting a decimal to a fraction	e.g. t 0.3 is 0.03	at which column thenths, hundredths 3 tenths = 3/10 is 3 hundredths = 3 is 3 thousandths	thousandths /100	
density		s able to move or operate of a substance is its mass per unit	1 1	$\frac{2}{2} = \frac{2}{2 \times 11 - 22}$	Converting a fraction to a		Try to write as a fra denominator of 10 4/10 = 0.4	or 100 e.g. 2/5 =	:
Indices	power. The p how many tir	nber is a number which is raised to a ower, also known as the index, tells you nes you have to multiply the number by imple, 2 ⁵ means that you have to	2 2 2 3 Adding and subtracting fractions	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	decimal		Divide the numera denominator e.g. 2	2/5 is 2 divided by	
	multiply 2 by	itself five times = $2 \times 2 \times 2 \times 2 \times 2 = 32$.	Convert 23% to a	23 % means 23 out of 100	Converting a decimal to a percentage	mult	iply the decimal by 0.36 is 0.36 x 100 =	100	
Improper fraction			decimal and fraction 23/100 as a fraction, simplify if possible.			Speed is the distance covered in a set amount of time. E.g. 12m/s means 12m			
Mixed number	A mixed num	ber has an integer and a fraction part. $3\frac{1}{3}$		23/100 is 23 divided by 100 = 0.23	Speed	trave	elled every second.	12 mph means 1	12
Ascending	To increase						s travelled every hons 12 km travelled		
Descending MathsWatch Refe	To decrease		Convert 0.35 to a fraction and percentage	0.35 is 35 hundredths = 35/100 35/100 means 35 out of 100 = 35%	Rules of Indices		Rule $a^{m} \times a^{n} = a^{m+n}$	Example 2 ⁵ x 2 ³ = 2 ⁸	
A7a,7b,A6,8,9,10,	11A,B,C,13a,	Algebraic reasoning, n th term	Convert 4/25 to a decimal and fraction	4/25 = 16/100=0.16 = 16%			$a^m \div a^n = a^{m-n}$	$5^7 \div 5^3 = 5^4$	
R9a,b		Percentage, fraction, decimal conversions	209 as a percentage of 400	$\frac{209}{400} \times 100 = 52.25\%$.			$(a^{m})^{n} = a^{m \times n}$ $a^{1} = a$	$(10^3)^7 = 10^{21}$ $17^1 = 17$	
R5a,b		Ratio, simplifying and using	Write $4\frac{2}{3}$ as an improper fraction.	Think of the <u>mixed number</u> as an <u>addition</u> : $4\frac{2}{3} = 4 + \frac{2}{3}$ Turn the integer part into a fraction:			$a^0 = 1$ $(a)^m a^m$	$34^{\circ} = 1$ $(5)^{2} - 25$	
N25		Indices		$4 + \frac{2}{3} = \frac{12}{3} + \frac{2}{3} = \frac{12 + 2}{3} = \frac{14}{3}$			$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$	$\left(\frac{3}{6}\right) = \frac{23}{36}$	
R11a,b		Speed and density	Write $\frac{31}{4}$ as a mixed number.	Divide the top number by the bottom. 1) The answer gives the whole number part. 2) The remainder goes on top of the fraction. 31 + 4 = 7 remainder 3 so 31/4 = 73/4			$a^{-m} = \frac{1}{a^m}$	$9^{-2} = \frac{1}{81}$	7





YEAR & - LENT TERM - SCIENCE - ENZYME THEORY



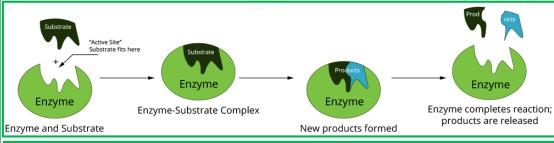
What is an Enzyme?

Enzymes are **biological catalysts**: they speed up reactions in living cells.

All enzymes are proteins: they are made of amino acids, and every cell contains enzymes.

Enzymes bind to **substrates** and carry out reactions: they can join substrate molecules together to make larger molecules (**synthesis**), or break the substrate down into smaller molecules (**digestion**). To catalyse a reaction, the substrate must bind to the enzyme's **active site**. The active site will only bind to a small number of substrates: it is very specific.

To explain how specific enzymes are, scientists proposed **the Lock and Key theory**: just like a specific key is needed to fit into and open a lock, a reaction can only take place if a specific substrate fits into the active site of the enzyme.



Enzymes and Digestion

Digestion is the breakdown of complex molecules into their components.

When we eat, chewing breaks the food into smaller pieces and allows enzymes to start breaking down the molecules present.

Different enzymes break down different types of nutrient, and the smaller molecules this produces will be absorbed by the small intestine.

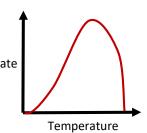
			Enzyn
			Amyla
Mouth		Salivary glands	Protea
Oesophagus			Lipase
			Enzy
Liver			Rate
Gall bladder		Stomach	The o
Pancreas			can r
Small intestine	EXIV.		
Appendix	The state of the s	Large intestine	1
		Rectum	Rate

Enzyme	Enzyme made in	Where it breaks food down	What it breaks down
	Salivary glands, pancreas, small intestine	Mouth and small intestine	Starch into sugars
	Stomach, pancreas, small intestine	Stomach and small intestine	Protein into amino acids
Lipase	Pancreas and small intestine	Small intestine	Lipids into fatty acids and glycerol

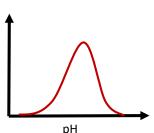
Enzyme Conditions

Rates of enzyme-catalysed reactions can be affected by the temperature and pH of their environment. The conditions at which the enzyme works best are called **optimum**.

At extremes of temperature and pH, the shape of the active site is permanently changed and the enzyme can no longer function: it becomes **denatured**.



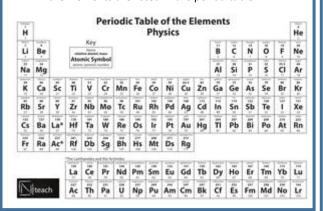
Increasing temperature provides more energy, so rate of reaction speeds up until the optimum temperature is reached. After this temperature, the active site starts to degrade.



pH is a measure of H⁺ ions in solution. The right amount keeps the active site the correct shape: too many (more acidic) or too few (more alkaline) changes the shape of the active site.



1. All the Elements are listed in the period table.



2. Key words.

Elements are made up of one type of atom.

Atoms are the smallest unit of matter than can't be broken down into anything simpler.

Elements can exist as a collection of separate atoms or atoms bonded as **molecules**.

A **molecule** is two or more atoms bonded together.

A **compound** is when two or more different elements become chemically combined. A **compound** can only be broken down by a chemical reaction.

A **mixture** is when two or more different elements are in the same space but not chemically combined. A **mixture** can be broken down by a physical reaction.

3. The diagrams below show the general arrangement of particles in an element, a compound and a mixture in gas state.





a) Atoms of an element

b) Molecules of an element





c) Molecules of a compound

d) Mixture of elements

- 5. Signs of a Physical reaction:
- No new substance formed.
- Change in temperature.
- A change in shape may be observed.
- A change in size may be observed.
- Easily reversed.
- 7. Examples
 Physical Reaction Ice Melting
 Chemical Reaction Baking a cake

6.Key Words. **Boiling Point** – The temperature at which a substance turns from a liquid into a gas

Melting point – The temperature at which a substance turns from a solid into a liquid.

- 8. Word Equations for chemical reactions.
- 8a) Iron + Sulphur ----→ Iron sulphate
- 8b) Iron + Copper Sulphate ----→ Iron Sulphate + Copper
- 8c)Magnesium + hydrochloric ---- > Magnesium + Carbon + Water Carbonate acid Chloride Dioxide
- 9. Symbol Equations for chemical reactions.
- 9a) $Fe_{(s)} + S_{2(g)} --- \rightarrow FeS_{(s)}$
- 9b) $2Na_{(s)} + CuSO_{4(aq)} ---- \rightarrow Na_2SO_{4(aq)} + Cu_{(s)}$
- 9c) $MgCO_{3(s)} + HCI_{(aq)} \longrightarrow MgcI_{2(aq)} + CO_{2(g)} + H_2O_{(l)}$
- 4. Signs of a Chemical reaction:
- Change in temperature takes place.
- A new substance is formed.
- A change in colour may be observed.
- A gas might be produced.
- Difficult to reverse

- ${\bf 10.}\ Balanced\ Symbol\ Equations\ for\ chemical\ reactions.$
- 10a) $2Fe_{(s)} + S_{2(g)} - \rightarrow 2FeS_{(s)}$
- 10b) $2Na_{(s)} + CuSO_{4(aq)} ---- \rightarrow Na_2SO_{4(aq)} + Cu_{(s)}$
- 10c) $MgCO_{3(s)} + 2HCI_{(aq)} \longrightarrow MgCI_{2(aq)} + CO_{2(g)} + H_2O_{(I)}$

YEAR & — LENT TERM - SCIENCE — PRESSURE

Key Terms	Definitions		
Pressure	The force exerted over a given area		
Fluids	A substance that can flow		
Pascals	The unit for pressure which can also be written as (N/m²)		

Equation	Meanings of terms in equation
$P = \frac{F}{a}$	P = Pressure (Pa) F = Force (N) a = Area (m²)

Pressure on surfaces

Objects exert pressure on the surface that they are on. The size of the pressure depends on the force applied by the object and the surface area of the object.

Pressure is calculated by dividing force by area.

Some objects look to increase pressure for example drawing pins have a very low surface area, so exert a high pressure.

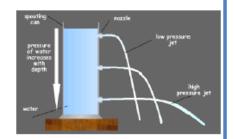
Snow shoes have a very large surface area so exert a very low pressure, stopping people sinking into the snow.

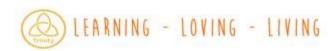




Pressure in fluids

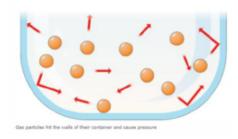
Fluids (liquids or gases) exert pressure at 90° to the surface. In a gas, particles are constantly colliding with objects, this exerts a pressure. In a liquid like water, the deeper you go, the higher the pressure.





Gas Pressure

Gas pressure is caused by gas particles colliding with the walls of the container. A container also experiences pressure on the outside. Air particles on the outside collide with the outside wall. An imbalance between the pressure on the inside and outside can cause the container to change its shape.



There are 3 factors affecting gas pressure:

1. Number of particles:

The more gas particles inside the container, the more often collisions will occur, creating a higher pressure.

2. Temperature:

If gas particles are heated up, they move with a higher speed and collide more often with the walls of the container, causing a higher pressure.

3. Volume:

If the same amount of gas particles are put into a container of a smaller volume, pressure will increase because particles will collide more frequently with the walls when they have less space.

Key Terms	Definition
DNA	Deoxyribonucleic acid – the genetic material of all organisms
Double helix	Two helical strands wound around each other
Chromosomes	DNA wound up tightly. There are 23 pairs in human cells (but a different number of pairs in other species)
Bases	The molecules which connect the two strands in DNA together. They are adenine, thymine, cytosine and guanine
Complementary	Shapes which fit together e.g. enzymes and substrates have complementary shapes
Gene	A short section of DNA which codes for characteristics
Allele	A version of a gene e.g. <u>blue</u> eyes

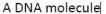
DNA Structure

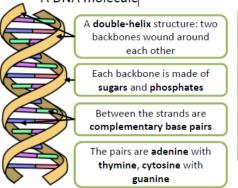
- · Genetic information is stored in the nuclei of cells, in DNA
- DNA has a double helix structure with two sugar-phosphate backbones wound around each other. Long strands of DNA are coiled up tightly into chromosomes
- Pairs of complementary bases connect the two backbones (strands)
- The bases are adenine, thymine, cytosine and guanine (A, T, C, and G)
- · A has a complementary shape to T
- C has a complementary shape to G
- A short section of DNA (a gene) will control for a characteristic (e.g. hair colour). Variants on these characteristics (e.g. blonde hair vs. black hair) have different orders of bases (genetic "code") and are called alleles.

History of DNA Discovery

We didn't always know that this was the structure of DNA. Main events in the history of DNA research are below:

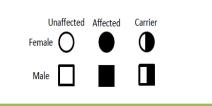
- Rosalind Franklin and Maurice Wilkins 1952
 - Using x-ray photography, Franklin and Wilkins produced highresolution photographs of DNA fibres. Using these they were able to deduce that DNA had a helical structure and that the outside of the molecule contained phosphates
- James Watson and Francis Crick 1953
 - Using the x-ray data from Wilkins and Franklin, and using models, Watson and Crick managed to discover the double-helix structure of DNA. They and Wilkins were awarded the Nobel Prize in 1962.





Family trees

- · These are used to show how alleles are inherited within a family
- Symbols to remember are:



Sexual and Asexual Reproduction

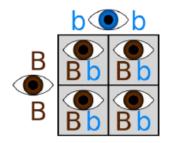
Sexual reproduction	Asexual reproduction
2 parents	1 parent
Variation	No variation
Offspring have features of both parents	Offspring are clones of the 1 parent
Used in the production of offspring	Used in the production of offspring and for growth and replacement cells

LEARNING Transport	- LOVING -	LIVING
--------------------	------------	--------

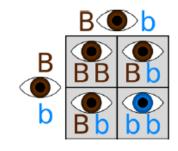
Key Terms	Definition
Dominant allele	The allele that is always expressed
Recessive allele	Only expressed if no dominant allele is present
Genotype	The combination of alleles a person has
Phenotype	The result of the combination of alleles a person has (the physical characteristic)
Homozygous	Has two of the same alleles of a gene
Heterozygous	Has two different alleles of a gene
Punnett square	Used to show the probable outcomes of crossing two sets of genes

Punnett Squares

- Dominant alleles are always shown by a capital letter
- Recessive alleles are always shown by a lower case letter
- For example the allele for brown eyes is dominant so is given a "B" whilst the allele for blue eyes is recessive so is given a "b"



Genotype of offspring: 100% Bb Phenotype of offspring: 100% brown eyes



Genotype of offspring: 25% BB 50% Bb 25% bb Phenotype of offspring: 75% brown eyes 25% blue eyes

Chromosomes and cell division

- · Human body cells contain 23 pairs of chromosomes (46 in total)
- One of each pair comes from the mother and one from the father
- Females have two X chromosomes (XX)
- . Males have one X and one Y chromosome (XY)
- When cells divide the chromosomes make copies of themselves before splitting them into new cells
- During mitosis two new cells are produced that are clones of the original cell and contain 23 pairs of chromosomes
- During meiosis four new cells are produced that are not clones of the original cell and only contain 23 chromosomes
- · Mitosis is used to produce body cells
- Meiosis is used to produce gametes

Genetic diseases

Sickle cell anaemia is a recessive genetic disease. Red blood cells are the wrong shape and get stuck in capillaries causing pain & cell death. Historically in African countries being a carrier (Ss) gave a survival advantage over malaria as the sufferers (ss) died of sickle cell, and the healthy individuals (SS) died of malaria, leaving carriers to reproduce. Carriers are highly resistant to the parasite, giving them a great advantage against malaria.

Huntington's Chorea is an incurable dominant genetic disease There are no carriers as carriers are sufferers (Hh) Symptoms are damage to the neurones in the brain leading to gradual physical, mental and emotional changes

Haemophilia is a sex linked genetic disease where the blood doesn't clot. The faulty gene is carried on the X chromosome. This affects only boys as girls have 2 X chromosomes so with usually have the healthy copy of the allele on their other X chromosome whereas boys only have 1 X chromosome so any faulty alleles on this will be expressed



Property	Metals	Non-metals
Appearance	Shiny	Dull
State at room temp	Solid (except mercury)	Half are solids, half are gases, one is liquid (bromine)
Density	High	Low
Strength	Strong	Weak
Malleable or brittle	Malleable (can bend without breaking)	Brittle (will shatter when hammered)
Conduction (heat/electricity)	Conduct both well	Poor (graphite only non-metal conductor)
Magnetic	Only iron, cobalt and nickel	None

All the different elements are arranged on the periodic table. The elements are arranged in order of increasing atomic number. On the periodic table, we can see the metal elements on the left and non metal elements on the right.

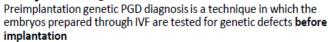
The section in the middle of the periodic table is known as the transition metals.

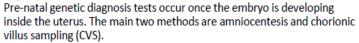
Metals and Non-Metals

Metals are found on the left hand side of the periodic table, the majority of elements are metals. Some elements are known as amphoteric, meaning they have the properties of metals and non-metals.

- Properties of metals are: high density, high melting point (except mercury) and good conductors of electricity
- Only three metals are magnetic (iron, cobalt and nickel)

Embryo Screening





Cloning

Dolly the sheep was born in 1996 and she was the first cloned mammal. She died age 6.5 which was a lot younger than expected. Some have speculated that a contributing factor to Dolly's death was that she could have been born with an older genetic age.

The cloning process is highly inefficient and so for ethical reasons would probably never be used to create human cloned babies. However could be used to raise the numbers of endangered species or bring back extinct ones.

Key Terms	Definition	
Genome	enome All of a species' genetic code	
Sequencing Working out what each section of the generation code codes for in the organism's phenotype		
Cloning	Creating an identical copy of a cell or organism	



Levers

Levers involve turning, or rotation. Levers allow forces applied to be **multiplied**.

- · Levers have a pivot: a fixed centre of rotation
- · The force applied to a lever is called the effort
- The output force of the lever is called the load (because levers can be used to lift large masses – loads!).
- Both the effort and load are forces that have a turning effect, meaning they make the lever rotate.
- The size of the forces' turning effects is called the moment of the force.
- · The moment of a force can be increased by:
 - 1. Increasing the size of the force
 - 2. Increasing the perpendicular distance from the pivot

Eq	uil	ibr	ium	in	lever	S١	<u>/stems</u>

- When a lever is at equilibrium, it is NOT rotating.
- · Equilibrium happens when:

the clockwise moments = the anticlockwise moments

- The forces in each direction are not necessarily equal, but the moments of the forces in each direction are equal at equilibrium.
- Where there are multiple forces in one direction (clockwise or anticlockwise), the TOTAL moment in one direction is found by <u>adding</u> <u>up</u> the moments of each force in a particular direction.

Key terms	Definitions	
lever A simple machine that multiplies applied forces (effort through rotation around a pivot.		
rotation	Turning, with a fixed centre of rotation. Rotation can be clockwise or anticlockwise – see diagram.	
turning effect	The rotation of a lever caused by a force (effort OR load force).	
moment	Another, more formal, name for 'turning effect of a force'. See equation.	
perpendicular	At right angles to.	
equilibrium	Describes a lever that is NOT rotating because the clockwise and anticlockwise moments are equal.	

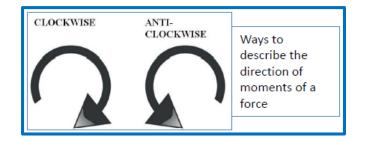
Equation to calculate the moment of a force

 $moment = force \times perpendicular distance from pivot$

Forces are usually measured in newtons (N)

Distances are usually measured in metres (m)

Moments are measured in a compound measure using the units for force and distance, usually newtonmetres, Nm.



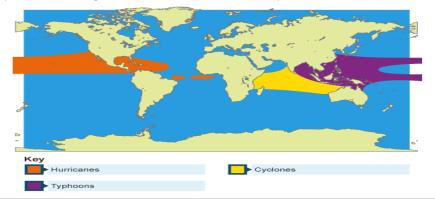
YEAR & — LENT TERM - GEOGRAPHY — HURRICANES

1	Coriolis force	Apparent force, due to the spinning of the Earth, which deflects movement of particles and wind.		
2	Drought	A long period of low rainfall that creates a major shortage of water.		
4	Evacuation	When people are moved from an area, often temporarily and for their safety.		
5	Habitat	A place where plants, animals and microorganisms live.		
6	Levee	Ridges or banks formed by deposits of alluvium left behind by the periodic flooding of rivers. Can also be artificially constructed banks or walls.		
7	Storm surge	Sea level rises above the normal tidal range.		
8	Tornado	Fast rotating winds that can cause a lot of damage.		

A weather hazard is an extreme weather event that threatens people or property. Weather hazards include:

- Tropical storms
- Tornadoes
- Droughts
- Storms, floods, fog
- Tropical storms (including hurricanes).

Tropical storms are given different names in different parts of the world.





- A tropical storm is a hazard that brings heavy rainfall, strong winds and other related hazards such as mudslides and floods.
- Tropical storms usually form between approximately 5° and 30° latitude and move westward due to easterly winds. The Coriolis force sends them spinning towards the poles.
- In most areas, tropical storms are given names. The names are alphabetical and alternate between male and female. This makes storms easier to identify, especially when they are close together.
- It is hard to predict the path of a tropical storm, and therefore difficult to manage an adequate evacuation of an area if needed.

How do tropical storms form?

- •Hurricanes need a lot of heat to form, which is why they usually occur over tropical seas (at least 26°C).
- •The sun is close to the equator, providing energy to heat the ocean.
- •The warm ocean heats the air above it causing it to rise rapidly.
- •Water evaporates quickly from the hot surface of the ocean, so the rising air contains great amounts of water vapour.
- •The rising air starts to spin (anti-clockwise in the northern hemisphere)
- •The centre of the storm the eye is calm.
- •As the air rises it cools, condenses and forms towering cumulonimbus clouds.
- •The rapidly rising air creates an area of intense low pressure. The low pressure sucks in air, causing very strong winds.
- •Once the storm moves over land it starts to lose energy and fades.



<u>YEAR 8 — LENT TERM - GEOGRAPHY — UGANDA</u>



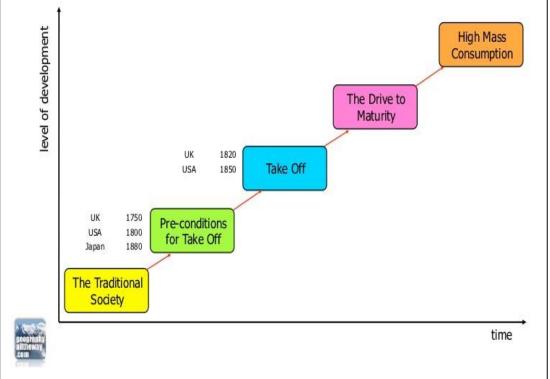
1	Development	The level of well being of a country.
2	Human Development Index (HDI)	It is measured 0-1 – using years in education, income and life expectancy as indicators. The nearest to 1 the better the quality of life.
3	Gross Domestic Product (GDP)	The total of wealth in a country. If divided by the total population it is the average income per person (per capita).
4	NGOs	Non-governmental organisations (charities)
5	Bottom-Up Approach	Development projects that originate in local communities.
		Approaches that are organised by governments often with little consultation with local communities.
7	Periphery	On the outside. Often refers to countries with less power.
8	Appropriate Technology	Equipment that the local community is able to use relatively easily at low cost.
9	PPP	Purchasing Power Parity- takes into account the cost of living in a country not just the GNI/GDP
10	Corruption Perception Index	Measured from 0-100. A highly corrupt country is 0 with a very clean country= 100
11	Gini Coefficient	Measures the extent to which income is equally distributed across a country. It is measured 0-1 with 0 meaning that everyone in the country would have the same income and 1 would mean that one person had all the money.
12	Maternal mortality Rates	The annual number of deaths of pregnant women per 100,000 live births.

Uganda – Barriers to Development.					
13	Rural isolation	86% of Uganda is rurally isolated. Transportation and telecommunications to these regions are poor and prevent populations from becoming involved in national and global economies.			
14	Dirt tracks	A large proportion of Uganda's roads are dirt tracks. These roads can be muddy and impassable. They prevent people travelling to the market place to sell crops, prevent children travelling to school and stop people travelling to the doctors and health careers.			
15	Imbalance of trade.	80% of Uganda's exports are agricultural. The main exports are coffee (22%), tea, cotton, copper, oil and fish. These items are largely low value and vulnerable to fluctuating prices. Uganda imports high value products such as oil, pharmaceutical products and manufactured products. This puts Uganda into debt.			
16	Gender inequality	Literacy rate for men is 80% and for women it is 60%. Lack of education means that women are likely to get married at a very young age and have a lot of children. It also prevents them from finding paid employment.			
17 Lack of medical care		Uganda has a doctor to population ratio of 8 per 100 000. Making it one of the lowest in the world. This puts people at great risk of disease and childbirth. 1.3 million people have HIV/AIDS and few have access to medicine to help them.			



Rostow's model of development.

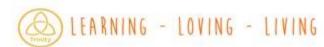
This theory of development was published by an American Economist Walt Rostow in 1960. Rostow proposed that all nations need to move through each stage to improve their development. In recent years it has come under great scrutiny because it ignores inequalities, informal employment and the social and environmental costs of "mass consumption".



	Development indicator	Uganda
14	Total population – the number of people in an area.	42.6 million
15	Gross Domestic Product (GDP) per capita - the total value of goods produced and services provided by a country in a year, divided by the total number of people living in that country.	\$604 US
16	Life expectancy - the average number of years a person born in a particular country might be expected to live.	59.4 years
17	Literacy Rate - the proportion of the total population able to read and write.	70%
18	Infant morality rate - the number of babies dying before their first birthday per 1000 live births.	37 per 1000
19	Fertility rate – number of live births	5.59 per woman
20	HDI - This is a measure of development used by the UN which combines indicators of life expectancy, educational attainment and income into one measure.	0.56
21	Average age	15.8 years
22	Deforestation – removal of trees.	2% is removed every year.

YEAR & — LENT TERM — HISTORY- INDUSTRIAL REVOLUTION

8 — LENT TE	<u>km — HISTORY- INDUSTRIAL REVOLUTION</u>	
Industrial Revolution	a huge change in Britain between 1750-1900 where the country changed from living and working on the land, to living in cities and working in new factories.	
Urban	Built-up areas in which people live in close proximity. This refers to either towns or cities	
Urbanisation	The movement of people from rural towns into cities.	
Rural	countryside area in which the population is spread thinly	
Agriculture	Producing food. Farming.	
Industry	the process of making products by using machines and factories	
Enclosures	Fields that were now surrounded by fences with the introduction of sheep farming rather than crops.	
Common land	Land not owned by anyone that poorer villages can use for grazing animals.	
Population growth	In 1750, only about 15 per cent of the population lived in towns . By 1900 it was 85 per cent and London had 4.5 million inhabitants.	
Toll	A fee charged for using a lock or certain roads	
Canal	Man made rivers that were used to transport goods instead of the roads.	
Lock	When canals cross hilly areas locks were used to allow barges to move from one water level to the next.	
Barge	Boats used on canals to transport goods.	
Textile mill	Factories that were used to create cotton products. This was one of the biggest exports in Britain.	
Luddites	Workers who protested against the use of machines and smashed them.	
Apprentice	A person who agrees to work for an employer for a period of time while learning a trade.	
Cholera	a disease that causes diarrhoea and was spread by the faeces in the streets.	
Workhouse	a house to look after the poor. In return they would work to produce goods	
Middle Class	Social group between upper and working class.	
Slums	Overcrowded dirty houses lived in by the poor.	
Quack Doctor	Someone who pretends to have medical skills	
Miasma theory	The idea that disease is caused by bad air, miasma.	
	Industrial Revolution Urban Urbanisation Rural Agriculture Industry Enclosures Common land Population growth Toll Canal Lock Barge Textile mill Luddites Apprentice Cholera Workhouse Middle Class Slums Quack Doctor Miasma	



			Similarities/ Differences before and	after Industrial Revolution
			1750	1900
Pop	ulation	7n	nil – 8-% lived in the countryside	37mil - 80% lived in towns or cities
Suff	rage		nly 5% had the vote in elections – omen could not vote	Most men could vote – but still not women
Poli	cing		police force and the death enalty	A professional police force. Prisons were reformed
Life expe	ectancy	Av	rerage life expectancy was 40	Average life expectancy was 55
Jobs	5	Fa	rming was the largest employer	Industry dominated by coal, iron, steel and clothes
Edu	cation		uildren did not go to school – few uld read or write	School compulsory for all 5-12 years old
Livir	ng condition	ons (during the Industrial Age	
· · · · · · · · · · · · · · · · · · ·		power machines in factories. The b	k food and heat water to produce steam to ourning of coal created smoke, which led to	
wding houses for all these people to live in			oving to the cities, there were not enough in. Low wages and high rents caused as possible.	
25 Disease		•	Typhus, typhoid, tuberculosis and cholera all existed in the cities of England. Cholera reached England for the first time in 1830, and there were further major <u>epidemics</u> in 1832 and 1848.	
disposal collecte the sew		ıl	collected by boys to sell to farmers	the streets were covered in horse manure, s. Human waste was discharged directly into into rivers. Parliament had to stop work is became too much.
quality inside them. They did not have runr		inside them. They <u>did not have run</u> keep clean. Many households had	her so there was little light or fresh air uning water and people found it difficult to to share a single outside toilet that was nd.	
28 Lack of fresh stand pipes, but this water was ofte			ety of places, such as streams, wells and en polluted by human waste.	

YEAR & — LENT TERM — HISTORY- WORLD WAR ONE

1 1111	כ בנווי יניווו	אויס ויווא שטוויט אויסיולוון
1	1914-1918	Years World War One was fought
2	Long term Cause	Factors / causes which happen a long time before an event takes place
3	Short term cause	Factors / causes which happen just before an event takes place – usually a catalyst
4	Militarism	An emphasis on military ideals and strength. Wanting your country to have a strong army and navy.
5	Alliances	A group of countries who promise to support and protect each other. Rival groups have rival alliances.
6	Imperialism	The desire to conquer colonies, especially in Africa. This brought the powers into conflict: Germany wanted an empire. France and Britain already had empires.
7	Nationalism	The belief that your country is better than others. This made nations assertive and aggressive
8	Franz Ferdinand	A member of the Austrian Royal Family - nephew of Emperor Franz Josef and heir to the Austrian throne (next in line to be the Emperor / ruler of Austria-Hungary)
9	Gavrilo Princip	Member of the Black Hand who shot Franz Ferdinand
10	Black Hand	A Serbian terrorist organisation which wanted to hurt Austria and get it out of Bosnia and planned to assassinate Franz Ferdinand
11	Trench	Long, narrow ditches dug into the ground where soldiers lived all day and night.
12	Trench foot	Wet and muddy conditions in the trenches caused feet to swell up and go black. The flesh would go rotten and the soldiers would be in terrible pain.
13	No Man's Land,	In the middle of the two front line trenches , was 'no-mans land'. So-called because it did not belong to either army. Soldiers crossed No Man's Land when they wanted to attack the other side.



13. European powers concerns in 1914

Britain: Germany's growing military and naval strength. Germany was also producing more goods.

Germany: Jealousy of Britain. Fear of having hostile neighbours (France and Russia).

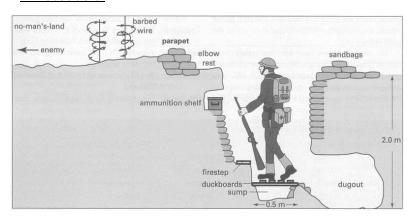
Russia: Rivalry with Austria-Hungary. Russia was keen to increase its influence in the Balkans

Austria Hungary: Many regions in the Empire wanted their independence. Russia was prepared to support these regions. Huge rivalry with Russia.

Italy: To try and remain neutral in the event of a major European war.

France: Wanted revenge after losing an earlier war to Germany and losing the territory of Alsace-Loraine

17. Inside a trench



14. Alliances in 1914

For a number of years tension between the main European powers has been increasing. In 1914 there were two main power blocks / alliances:

The Triple Entente- Great Britain / France / Russia **The Triple Alliance**- Germany / Italy / Austria-Hungary

European countries Empires in 1914.

15. Imperialism:

	Population of country	Population of colonies	Area in km2 of colonies
Great Britain	40.8 million	390 million	27 million
France	39.6 million	63 million	11 million
Germany	63 million	15 million	2.5 million
Austria	50 million	none	none
Russia	139 million	none	none

16. Militarism:

European Militar	European Military spending and the size of their armies, 1913 - 14.		
Country	Soldiers	Money spent in millions.	
Britain	750,000	50,000,000	
France	1,500,000	40,000,000	
Germany	8,250,000	60,000,000	
Austria	750,000	22,500,000	
Russia	1,250,000	15,500,000	
Italy	750,000	10,000,000	

18. Life in the trenches:

Soldiers in the trenches <u>did not get much sleep</u>. When they did, it was in the afternoon during daylight and at night only for an hour at a time. They were woken up at different times, either to complete one of their daily chores or to fight. During rest time, they <u>wrote letters</u> and <u>played card games</u>. The trenches could be very <u>muddy and smelly</u>. There were many <u>dead bodies buried nearby and the latrines</u> (toilets) sometimes <u>overflowed</u> into the trenches. Millions <u>of rats infested</u> the trenches and some grew as big as cats. There was also a big problem with lice that tormented the soldiers on a daily basis.

19. Problems in the trenches:

Lice: The trenches did not have running water or showers, so soldiers found it very hard to keep clean. They soon became infected with lice that lived on all parts of their bodies.

Rats: The dirty conditions and the lack of storage attracted rats to the trenches. The rats ate the soldiers' rations and crawled all over them when they slept. They carried diseases.

Toilets: There was no running water or sewage pipes in the trenches. This meant that proper toilets could not be fitted.



History and Belief

People	
Muhammad	Believed to be the final prophet who received God's full revelation. He lived from 570-632 CE. Muslims write PBUH after his name to show respect.
Abu Talib	Muhammad's uncle.
Khadija	A wealthy businesswoman and widow who became Muhammad's wife when she was 40 and was also the first to believe his message after the Night of Power.
The caliphs	Abu Bakr (632-634), Umar (634-44), Uthman (644-56) and Ali who was Muhammad's cousin and nephew (656-61) Ali was succeeded by Muawiya.
Fatima	Muhammad's daughter, who married Ali.
Hussein	Ali's son, who was killed in the battle of Karbala.
The prophets	The Qur'an names 25 including Adam, Musa, Ibrahim, and Isa.

Vocabulary

Caliphate	The Islamic community ruled over by the caliph.	
Shi'a	Muslims who believe that Ali and his descendants should have succeeded Muhammad as leaders of Islam.	
Sunni	The majority (about 85%) of Muslims who believe that the 'Rightly Guided Caliphs' (first four caliphs) were the rightful successors of Muhammad.	
Surah	A chapter of the Qur'an; there are 114 surahs in total.	
Hafiz	A man who has memorised the Qur'an. A woman is called a hafiza .	
99 names of God	99 characteristics of God used by Muslims to try and describe what God is like.	
Tawhid	Belief in the oneness of God.	
Shirk	The Arabic word for the sin of worshipping anything other than God.	
Day of Judgement	A day when all people's faith and deeds will be judged by God and they will go to Jannah (paradise or heaven) or Jahannam (hell).	

Vocabulary		
Prophet	A messenger sent from God.	
Revelation	A message revealed by God to humans.	
Qur'an	The holy book of Islam, which Muslims believe contains the word of God; it literally means 'recitation.'	
Mosque	The place of worship for Muslims. It literally means 'place of prostration.' The Arabic word for mosque is 'masjid'.	
Месса	A city in present-day Saudi Arabia; Muhammad was born here In 570 CE.	
Medina	One of the main cities in Arabia at the time of Muhammad (originally called Yathrib).	
Polytheism Belief in many gods. Muhammad was born into a polythei tribe called the Quraysh.		
The Night of Power	The night in 610 CE on which the angel Jibril appeared to Muhammad and he received his first revelation from God.	
The Night Journey	Muhammad's journey between Mecca and Jerusalem on a winged horse and ascension to the heavens in 620 CE.	
Hijrah	The emigration of Muhammad and his followers to Yathrib (Medina) in 622 CE.	
Constitution of Medina	The laws passed by Muhammad in Yathrib when he and his followers first settled there.	
Idol	A picture or object that people worship as part of their religion.	
Ka'aba	A holy site in Mecca which Muhammad dedicated to God after destroying its 360 idols.	
Caliph	The Arabic word for the leader of the whole Muslim community after the death of Muhammad; it literally means 'successor'.	

YEAR & — LENT TERM — RELIGIOUS EDUCATION — RITUALS OF LIFE



Key Terms:

Procreation – To have sex and produce children.

Cohabitation - Living together in a sexual relationship but without legalising the union through marriage.

Marriage – The legal union of a man and a woman or a same-sex couple.

Adultery – voluntary sexual intercourse between a married person and a person who is not their spouse.

Abstinence - Choosing to restrain oneself from doing something, for example, having sex or eating food (fasting).

Homosexuality – Sexual attraction to members of the same sex.

Heterosexuality -Sexual attraction to members of the opposite sex.

Promiscuity - Sexual relations with multiple partners on a casual basis.

Sanctity of Marriage - The idea that marriage has a special significance as a holy gift of God.

Faithfulness - Not having a sexual relationship with anyone other than a partner. **Sacrament** – is a rite of passage or ceremony where the grace and the power of God can be received. Protestant communities refer to the sacraments of Baptism and Eucharist as ordinances.

Rites of Passage - Events marking key stages in the life of a Christian.

What do Christians believe about rituals of life?

4. Ethics and relationships in Christianity – Christian views of sex and sexuality The nature and importance of sexual relationships in Christianity:

Christians believe sex is a gift from God intended for procreation, therefore they believe that sex should take place only within marriage. They believe that sex is an important way for man and woman to show commitment to each other. All forms of sexual activity are forbidden outside of marriage.

Marriage is an important rite of passage in Christianity. For Christians, marriage is traditionally accepted as being between man and a woman, and is seen as the correct context in which to have sexual relationship and children.

Sexual relationship in the Bible:

- > Casual relationships are wrong marriage is intended for sexual relationships.
- ➤ Adultery is forbidden in the Ten Commandments, which are rules from God.
- ➤ Married couples should be faithful to each other as spoken in the marriage vows.
- > St Paul in the Bible condemns homosexual acts, stating that they are 'shameful'.
- > Being sexually pure is advised, and many Christians take a vow of chastity before marriage.

Source of Wisdom and Authority:

Marriage – Therefore what God has joined together, let no man separate. (Mark 10:6-9)

Adultery – You should not commit adultery. (Exodus 20:14)

God bless them and said to them, 'Be fruitful and increase in number; fill the earth and subdue it'. (**Genesis 1:28**)

Flee from sexual immorality. All other sins a person commits are outside the body, but whoever sins sexually, sins against their own body. Do you not know that your bodies are temples of the Holy Spirit.. Therefore honour God with your bodies. – (1 Corinthians 6:18-20)

1 Corinthians 6:18-20 — can be interpreted to mean that the body is sacred and sexual relationship should no be abuses, or that a sexual relationship is a way of honouring the body, with sex being a gift from God.

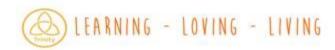
Stewardship: The Lord God took the man and put him in the Garden of Eden to work it and take care of it. **(Genesis 2:15)**

4a. Similar and different Christian views and attitudes to marriage:

Christians beliefs about marriage

- ➤ Most Christians believe marriage is a sacrament a ceremony in which God is involved. Vows, such as being faithful, are made between the man and woman and also to God, showing marriage is sacred and binding.
- ➤ Marriage is believed to be a gift from God it is part of God's plan for men and women to live together as stated in the Bible.
- ➤ Marriage is seen to provide security and a stable environment for children to be raised as Christians.
- ➤ Although marriage is important, some Christians believe that God doesn't want everyone to be married. Jesus himself wasn't married and some Christians believe they have a vocation from God (for example, being a monk or nun) where marriage is not a requirement.

YEAR & — LENT TERM — RELIGIOUS EDUCATION — RITUALS OF LIFE



4b. Similar and different attitudes to sex and sexuality:

Christians hold some key beliefs about sexual relationships, including the belief that a sexual relationship should only take place between a man and a woman who are married to each other.

Alternative Christian views of sexual relationships:

Some Christians believe that, in modern society, some ideas about sexual relationships are outdated. They believe that love is important and should be celebrated in whatever form it occurs.

This may allow them to accept cohabitating couples who have a sexual relationship as well as homosexual couples who are in a permanent and stable relationship.

5. Christian attitudes to rights and responsibilities, global issues and interfaith dialogue – Christian beliefs about their responsibility to care for the elderly in their families and community:

Today's natural world faces many threats, often from humans.

Threats in the world – The world today is being damaged by pollution, global warming and humanity's excessive use of natural resources. Many animals species are threatened with extinction, while the world's fast-growing human population is becoming unsustainable.

Christian responses:

- 1. the Bible teaches that we should care for the world
- 2. Christians see the world as a sacred gift from God
- 3. Christianity teaches that human will be judge after death on how they treated the Earth
- 4. God gave human the responsibility of stewardship of the Earth caring for it for future generations.

The purpose of the family – Christians believe the family was God's intention for humans when he created them.

6a. Rituals of life and death, including burial, according to Christianity:

All Christians believe there is an afterlife for those who believe in God. Eschatology is the word used for 'end times'. It can refer to the end of human life or the end of the world.

Funeral Services for Christians are typically held in the church they were affiliated with, and the focus of the service is usually on their religious life. During most Christian funerals, there is a sermon, prayer, reading of Scripture and singing hymns. It is also common for a eulogy or funeral resolution to be read that details the religious life of the deceased. A wake is sometimes held prior to the start of a funeral service. This is a time when close family members come together to view the body and offer support to one another in their time of loss.

A Catholic funeral is slightly different and can be with or without Mass:

Burial Customs - Christians are typically buried in consecrated ground, which is an area that has been blessed or a cemetery where other Christians are buried. In the past, Christians were encouraged not to be cremated but to imitate Jesus' burial in the tomb. However, most Christian denominations now accept cremation as an option.

6b. Similarities and differences of belief between faiths:

Resurrection – Christians believe that death is not end. They believe that the resurrection of Jesus – when he came back to life from the dead – proves life after death.

The Soul – Death is only the end of the body; the soul is immortal.

- Souls that have been saved either go to heaven or to **purgatory** (which is the Catholic idea of a 'waiting room', where souls go to be cleansed before entering heaven).
- Souls that have not achieved salvation will go to hell.

Judgement – Christian accept God is just and it is God who will decide the destination of every human's soul after death. They believe that Jesus is also involved in judgement and will offer every human the opportunity of salvation. Those who refuse will face the 'Last Judgement'.

Heaven – Heaven is mentioned in the Bible, yet it is rarely described. Some Christians believe heaven is a physical place, but most think it is a spiritual state of being united with God. The Bible teaches there is no sin, sadness or suffering in heaven.

6. Christian beliefs about religion and science - Body and Spirit:

Religion and science ask different kind of questions about the universe and its origins. Most Christians embrace scientific discoveries but in ways that differ according to Christian denomination. Christians believe that God took human form as Jesus Christ and that God is present today through the work of the Holy Spirit and evident in the actions of believers.

YEAR 8— LENT TERM- PHYSICAL EDUCATION — BASKETBALL



Key skills:	Rules, techniques, tactics:	
1. How do you dribble? Head up, spread fingertips over ball, bounce at waist height.	12. How many players are on the court during a game? A game is played between 2 teams with 5 players on the court.	
2. How do you perform a chest pass? W shape behind ball, chest height, follow through.	13. What is the aim? Players are aiming to score as many points in the time allocated by shooting through the hoop.	
3. How do you perform a bounce pass? As a chest pass but ball will bounce before player.	14. Can you move with the ball? Players cannot travel with the ball or perform a double dribble (dribbling, picking up the ball, continuing to dribble). Players cannot hold the	
4. How do you demonstrate a set shot? knees bent, strong hand on bottom	ball for longer than 5 seconds.	
of ball, other hand supporting, extend elbow to 90 degrees towards net.	15. What happens of the ball goes out of court or if a point is scored? If the ball goes	
5. How do you demonstrate a lay up? Strong hand on the bottom of ball, other hand supporting. Right right hand dribble, step right, jump left, aim for	out of court then a side line ball is taken by the opposite team. If a point is scored the ball goes to the opposition from the backline.	
top corner of black box.	16. What happens after the ball has crossed the mid line of the court in an offensive	
6. How do you perform a jump shot? Landing on alternate feet, first foot to land is static and pivots, ball must be released as jump is executed.	situation? Once the offense (attacking team) has brought the ball across the mid line of the court, they cannot go back across the line during possession.	
7. How do you man to man defend? Knees bent, straight back, arms out,	17. What is a foul given for? Hitting, holding or pushing an opponent.	
follow player (watch their belly button). What is zone marking? A strategy of team defense often used around the	18. What happens if the shooter is fouled? 1 – 3 free throws can be awarded worth 1 point each.	
key. Prevents attacking players getting into the zone.	19. How long does a basketball game last? A game is made up of 4 quarters of 12 minutes so a total of 48 minutes. However regulation time is stopped for many aspects of gameplay including fouls, ball out of bounds and timeouts so a game can be up to 2 and a half hours!	
8. What is rebounding? Regaining possession after a shot has been missed.		
9. What is the offence? The team with the ball are the offending team and are aiming to shoot at the basket and score. only chance that the team has a		
shot at the basket and scoring.	 20. Defensive strategies: Zone defense – this is where you work as a team to prevent the attacking team moving further up the court. It is a great method of defense but needs a great deal of team work and cooperation. Man to man defense – this is where you mark a specific player and prevent them from getting them ball. Keeping them 'out of the game' through defense. Marking the ball – this is where you follow the ball and try and intercept. 	
10. What is the defense? Preventing an opportunity for the opposition to score.		
11. What is an assist? Helping a teammate to score.		
21. Attacking strategies:		

• Early Offense - The main reason for early offense is to advance the ball into the front court area and attack before the defense is able to become organized into a disruptive force. Set Offenses - Although most teams would prefer to play the up-tempo, fast-break transition game that personifies today's basketball, the "Set Play" is the staple of the game. Set plays use teamwork and screening actions in an effort to create open shots. Explore the most commonly used basketball offenses graphically illustrated and analyzed in great detail.

YEAR 8— LENT TERM- PHYSICAL EDUCATION — FOOTBALL



TEACHING POINTS & STRATEGIES BASIC RULES

- 1. How do you start a football match? The football game is started by a kick off in the centre of the pitch.
- 2. What's the number of players on each side during a professional match? In a full sided game each team consists of 11 players.
- 3. What happen when the ball goes off at the side of the pitch? If the ball goes off the side of the pitch it is a throw in to the team that didn't touch the ball last.
- 4. What happen if the ball goes off at the end of the pitch?

If the ball goes off the end of the pitch it is a corner or a goal kick depending who the ball touched last.

- 8. What are the teaching points for the SHORT PASS?
- Non kicking foot next to the ball
- Use the side of the kicking foot to contact the ball following a short back swing
- Keep head over the ball to improve accuracy and ensure ball stays on the ground
- Follow foot through to generate more power
- 9. What are the teaching points for SHOOTING?
- Non kicking foot next to the ball
- keep body balanced
- head slightly over the top of the ball
- use side foot for placement or top of the foot for increased power
- flex leg back further when preparing to strike to the football for increased power
- aiming for the area of the goal that the goalkeeper is least likely to save the ball.

KEY TERMINOLOGY

4. What is meant by the term offside?

If a player is past the opponent's last defender and in the opposition half when the ball is passed they are offside and an indirect free kick is awarded to the opposition team.

5. What is meant by the term corner kick?

A free kick taken from the corner of the field by an attacker. The corner kick is awarded when the ball has passed over the goal line after last touching a defensive player. The shot is taken from the corner nearest to where the ball went out.

6. What is meant by the term marking?

This is where you mark someone on the other team when they have the ball in order to make it harder for them to make a pass or to get free into a space to receive the ball.

7. What is meant by the term VAR?

The video assistant referee (VAR) is a match official in association football who reviews decisions made by the head referee with the use of video footage and a headset for communication.

10. What is POSSESION FOOTBALL?

Possession football is when teams attempt to hold onto the ball for as long as possible, at all times choosing the easiest possible pass (hence the many times you see defenders passing the ball along the defensive line).

11. What is a COUNTER-ATTACK?

Counter attacking football is withdrawing your team into your own half, but keeping a man or two further up the pitch, the goal is to take the ball off the opponent while they have players committed to the attack and thus out of position. Once you have the ball in your own half, you have more space to deliver a through-ball for your strikers, who will be lurking around the halfway line and will have fewer players to negotiate.

FULL FOOTBALL POSITIONS

- Goalkeeper
- 2. Wing-Back
- Full-back
- Sweeper
- Centre-back
- Defensive midfielder
- 7. Winger
- Central Midfielder
- Striker
- Attacking Midfielder
- 11. Forward





Theatre Makers

When see a play you are aware of the performers, but you might not think about the other theatre makers who do not appear on stage.

The Playwright writes the script of the play including the stage directions and the dialogue. The Performer has a role on stage. They appear in the production, for example as an actor, dancer or singer.

The Understudy learns a part, including lines and movements so that they are able to take over a role for someone if needed when there is a planned or unexpected absence.

The Lighting Designer designs the lighting states and effects that will be used during the performance.

The Sound Designer design the sound required for a production which may include music and sound effects.

The Costume Designer designs what the actors wear on stage making sure that the costumes are appropriate for the style and the period of the play.

The Set Designer designs the set of the play and the set dressing. They may also create/source props. All must be appropriate for the style and period of the play.

The Director oversees the whole production. They develop a concept for the play and liaise with the designers and performers.

Voice and Movement Revision

Voice Key Words

Volume: Loud to quiet

Crescendo: Increasing volume

Pitch: Deep or squeaky

Pace/Tempo: Fast or slow

Rhythm: Fluctuations in pace

Pause: Breaks in speech

Inflection: Emphasis on a word **Articulation**: Emphasis on letters.

Tone: Emotion

Clarity: Clearly say words

Accent: A way of speaking that denotes where you are

from

Movement 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 stands or sits e.g. slouch or

straight.

Proxemics: The space between the characters creates

meaning.

Levels: Suggest status e.g. a dominant character may be

higher up

Space: A character can demand a lot of space or hide in

a small corner.



- Role on the Wall: Draw an outline of your character. Annotate it to reflect the character's thoughts, feelings, fears, circumstances etc.
- Hot-Seating: An actor sits in the hot-seat and is questioned in role. They spontaneously answer questions.
- 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.
- Conscience Corridor: Performers make two lines facing each other. The protagonist poses a question such as "Should I put Granddad in a basket and leave him by the side of the road"? Actors on each side of the corridor give reasons for and against.



- Bigger Bigger Bigger: Rehearse one scene several times increasing the energy in gesture/movement, exaggeration of facial expression and volume
- Non-Verbal Body Language: Perform a scene without speaking. Create meaning through mime.

YEAR & — LENT TERM — DRAMA - SCRIPTS



Play Scripts - This term, you will need to learn all of the lines from ONE play below and be able to perform on stage without a script. Below are the shortened versions.

riay scripts - This term, you will need to learn a	ii of the lines from ONE play below and be able to perfo	rm on stage without a script. Below are the shortened versions.
You will receive the full scripts in lessons.		
'Too Much Punch for Judy'	'After Midnight Before Dawn'	'Much Ado About Clubbing'
Young Adult 1: What are we having?	Elderly Person: God have mercy.	Parent: No, no. Absolutely no way.
Young Adult 2: A bottle of wine!	Adult: It was a mistake; they should admit their	Child: Why not?
Young Adult 1: Cheers!	mistakes.	Parent: Because I'm your mum/dad* and what I say goes.
Young Adult 2: Cheers!	Elderly Person: God have mercy.	Child: Mum/Dad*! That's a joke.
Young Adult 1: Drink!	Adult: They meant to take someone else, not me.	Parent: And what's that supposed to mean?
Young Adult 2: Drink!	Elderly Person: God have mercy.	Child: You know what I mean.
Young Adult 1: We're totally drunk.	Adult Stop praying. Nothing's going to save us.	Parent: How dare you talk to me like that? You'll see the back of
Young Adult 2: A bottle of wine, but I'm still	Elderly Person: Why did they beat on my door?	my hand.
standing.	Adult: Someone must have spread tails.	Child: Go on then. Take it out on me/us instead of who you're
Young Adult 1: (Takes out car keys.) I think we	Elderly Person: They tortured me.	really angry with my pathetic drunken dad/mum.
better get out of here before we're kicked out.	Adult: Be thankful that its over.	Parent: Don't talk about your dad/mum like that!
Young Adult 2 Wouldn't it be better if I drive?	Elderly Person: Over?	Child: It's the truth!
Young Adult 1: No, it's my car it's my	Adult: No more pain.	Parent: You leave your dad/mum out of this!
responsibility!	Elderly Person: I screamed but they wouldn't stop.	Child: That's right stick up for him/her. You're always on
Young Adult 2: But I haven't had as much to	Adult: They laughed when they tortured me.	his/her side.
drink as you. I'll only be a little bit over the	Both A mistake, a mistake, a mistake has been made.	Parent: It's not a question of sides.
limit.	Elderly Person: Lies, lies. I never worked with the	Child: Could have fooled me anyway I'm/We're off.
Young Adult 1: OK then, (throws the keys) you	devil.	Parent: Perhaps you didn't hear me You. Are. Staying. Right.
drive. (Silence)	Adult: But you confessed.	Here.
Young Adult 2: We got into the car and put on	Elderly Person: I confessed because of the pain.	Child: That's what you think. Why don't you tell dad/mum to
some music. I was in the driving seat.	Adult: Me too. I couldn't take any more.	leave?
Young Adult 1: The last thing I remember is	Both: and tomorrow we shall both hang.	Parent: You are out of control. Your dad's/mum's right.
driving past a hospital.		Child: Dad/Mum is right! S/He's right off his face. Anyway, it
Young Adult 2: The accident happened on		takes one to know one. You're just as bad as him/her
20th May. (Mime the accident)		Parent: Just one more word
Young Adult 1: Bro/sis bro/sis! Slow down a		Child: And you'll what? Go on I'm dying to know.
bit!		Parent: Get out of my sight before [
Both:CRASH!!!		Child: That's exactly what I've/We've been trying to do (exits
		and shouts) And don't bother waiting up. (to the audience) As if
		she would!



Sound



Diegetic - sound that comes 'from the world of a story'. This means any sound that is part of the action, and therefore experienced by the actors 'on stage'. Can include sound effects (SFX) and background noise.

Non-Diegetic doesn't come directly from the world of the story 'onstage'. Characters are not aware of it. It usually creates the atmosphere.

Mark a moment: Various ways including Sound Effects (SFX) or silence

Volume: Loud to quiet

Crescendo Gradually getting louder

Pitch: High to low Pace: Fast to slow Pause: Breaks in sound Silence: The removal of all sound

Contrast:

Opposing sounds (e.g. Loud/quiet, fast pace/slow pace) Length of notes: Sustained (Long notes) Staccato notes (Short sharp notes)

Reverb: Echoing effect

Atmosphere: The feeling created e.g. cold, scary, romantic, tense,

relaxed/calm

Entrance: How the sound is first played. (e.g. Dynamic and loud or

Foley sound: Replace an original sound (e.g. the digital sound of

Sound Bridge: The sound from one scene carries over into the next scene.

Lighting

Stylised Lighting State



Covers specific sections of the stage, harsh colours, hard edges. This does not look like how the sun would light the stage. It is more alien in its appearance.

Naturalistic Lighting State



Soft lighting, covers whole stage, gentle colours. This would look like how the sun would like the stage.

Key Lighting Terms

Lantern: The correct term for stage lights

Gels: Sheets placed in front of the lights to change the colour

Intensity: Full beam or low light or black out General Wash: Covering the stage with light

Spot Light: Focusing the light on a specific area of the stage

Transition: Slow fade or snap (quick) fade Edge: The edges of the light can be soft or hard

Gobo: Create shapes in lighting (e.g. Batman's emblem) Floor Lantern: Light from below. Creates non-naturalistic

shadows. Can look scary

Cyclorama: Large white sheet onto which images are projected

Projection: Projected images onto a cyclorama

Crossfade: When the light travels from one side of the stage to the other

Lighting State: The light(s) used in a specific scene Blackout: When the stage is completely dark

Costume, Hair and Makeup

Costume, hair and make-up can suggest character, time and the style of the play, eg naturalistic or abstract. Look at the four pictures of actor Adrian Lester. Note how the change of costume helps the audience to

understand the role he is playing.

Things to consider when designing costume, hair and make-up:

When is the play set? Is the play naturalistic or non naturalistic? What is the character's personality? What is your character's status? Do the actors need to change? What materials will be used?

What colours will be used?



Bright stage lighting can wash out facial features and make performers appear pale, so make-up is used to enhance features and make sure that the audience can see the actors' facial expressions. It can also be used to age an actor who is playing an older character or to create fantasy characters. It is worn by both male and female actors.

Colour can be used symbolically. White nay represent innocence and purity, and red may represent danger.



Set and Props

Set means the scenery and furniture onstage. Some theatre sets are very elaborate and detailed (naturalistic). However, a simple or minimalistic set can be also be very effective (non-naturalistic). The two images show a row of houses in two different plays. Which one is naturalistic and which one in non naturalistic?

Things to consider when designing Set and Props:

When is the play set? Is the play naturalistic or non naturalistic? How can levels create meaning? How can proxemics create meaning? Are there set changes? What materials will be used?

What colours will be used? Will images be projected onto a

cyclorama or painted onto flats?

Items that the actors use on stage.

Key Terms for Set and Props

Flats: Large sheet of canvas or wood that the scenery is painted on to. Fly: Ropes used to pull flats on/off stage.

Wings: The side of the stage Apron: A small piece of stage in front of the Proscenium Arch

Trap door: Door covering exit hole in the

Cyclorama: A large cloth onto which scenery can be projected

Gobo: Creates shapes that can be projected

Birdseve View: Draw the stage looking



A row of houses in 'Curious Incident'



A row of houses in 'Blood Brothers'

YEAR & — LENT TERM — COMPUTER SCIENCE – THE BIGGER PICTURE

LEARNING - LOVING - LIVING

Environmental Issues

Negative Impacts: What is Energy Consumption? Provide examples of E-Waste and health affected by chemical leaks from computers – which chemicals are dangerous? What is recycling and sustainability, how can we do this with IT equipment?

What are the positive Impacts of environmental technology What is climate monitoring (see image and link:

https://www.itu.int/themes/climate/docs/report/06_monitoringClimateChange.html)

Why Reduced printing

Types of Software

Proprietary

e.g. Windows, iOS and MacOS Microsoft Office, Adobe Photoshop – license needed per machine

Open Source

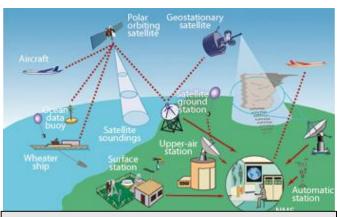
e.g. Linux and Android LibreOffice, The GIMP – (can sell or be free) - code can be changed



Privacy and Security

- Location monitoring
- Mobile Phone providers
- Surveillance Cameras
- Encrypted messaging
- Data Protection ActCvbersecurity
- Threats and Defences

Use Quizlet study sets 06... to learn the definitions associated with this topic.



Legislation (find out what the following are)

What is the Copyrights, Designs & Patents Act 1988 What is Intellectual Property

What is intellectual Frope
What is Hardware patents

What is the Computer Misuse Act I link to;

Hacking / viruses

What is Data Protection Act 1998

Privacy, accuracy, security

Software license is a legal instrument governing the **use** or redistribution of software.

volume licensing is the practice of selling a **license** authorizing one computer program to be used on a large number of computers or by a large number of users

Personal license is an option for private individuals who purchase a **license** with their **own** funds

What is Data Protection Act 1998. Protects Personal data:

- Used fairly, lawfully and transparently
- · Used for specified, explicit purposes
- Used in a way that is adequate, relevant and limited to only what is necessary
- Accurate and, where necessary, kept up to date
- Kept for no longer than is necessary
- Handled in a way that ensures appropriate security, including protection against unlawful or unauthorised processing, access, loss, destruction or damage

Emerging Technologies

Robotics, AI –list technology examples

Internet of Things. What is Quantum Computing: An example of a living, breathing quantum computer is Google's 72qubit quantum chip dubbed Bristlecone

Ethical Impact

Does technology help with Inclusion / Accessibility

The Digital Divide: Members of an elite corps specialize in the recondite skills of the computer age while the vast majority of North Koreans have never seen a computer, much less gone on line

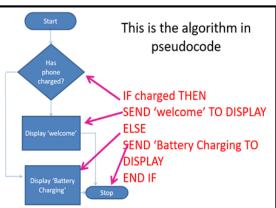


YEAR & — LENT TERM — COMPUTER SCIENCE - PROBLEM SOLVING

LEARNING - LOVING - LIVING

Pseudo-code

- Written Description
- Write an Algorithm
- Complete an unfinished Algorithm
- Code in a HLL (e.g. Python)
- Pseudocode is a kind of structured English for describing algorithms
- It allows the designer to focus on the logic of the algorithm without being distracted by the syntax of the programming language
- You will see pseudocode statements written in a consistent style in exam questions, but you can use alternative statements so long as the meaning is clear



Algorithms

Sequence, Selection, Iteration Flowcharts

Interpreting
Creating your own
Using symbols correctly

Analyze the Problem (3)

•Example. Making tea. Suppose we have a robot which carries out household tasks. We wish to program the robot to make a cup of tea. An initial attempt at an algorithm might be:

- 1. Put tea leaves in pot
- 2. Boil water
- 3. Add water to pot
- 4. Wait 5 minutes
- 5. Pour tea into cup

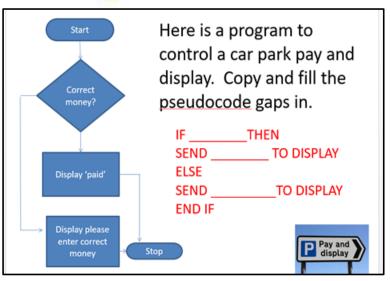
Designing Solutions

Analyse a Problem
Decompose it
Abstract the Data Structure
Identify inputs, process, outputs
Design an Algorithm



Interpreting Algorithms

- Purpose of a given algorithm
- Explain how it works
- Determine output for given inputs
- Identify Logic Errors
- Discuss efficiency



Symbol	Name	Function
	Start/end	An oval represents a start or end point
→	Arrows	A line is a connector that shows relationships between the representative shapes
	Input/Output	A parallelogram represents input or output
	Process	A rectangle represents a process
	Decision	A diamond indicates a decision

YEAR 8 — LENT TERM — MUSIC — BLUES AND JAZZ

Guitar Tab

What is Guitar Tab?

- Tab or tablature is a way of notating or writing down music.
- It shows a graphic representation of the strings and frets on the guitar fretboard.
- Each note is indicated by placing a number, which indicates the fret to play, on the appropriate string.

The Lines

- When reading guitar tab you will see six lines.
- The thickest string on the guitar or bass is the one nearest your chin, with the thinnest string being the closest to the floor.

The Numbers

- The numbers show which fret to play where the number is written will show which string is to be played.
- Frets are the metal strips that run across the fretboard.

Blues

Set Work: Sweet Home Chicago, Robert Johnson

Musical features: 12 bar blues chords; Walking bassline; AAB melodic structure; Improvisation; blues scale

The blues is the name given to a style of music created by African Americans at the end of the 19th century. Blues music was originally performed by one singer accompanied by a guitar or banjo.

Until the end of the 19th century, America was largely a rural community. In the early 20th century large numbers of people started to move to industrial cities. After the Civil War and the emancipation of slaves, the blues spread, together with the people who sang and played it. Many former slaves moved from the cotton fields of the southern states to northern cities such as Chicago and Detroit, where the blues became hugely popular.

Jazz - Big Band/Swing

Set Work: In the Mood. Glenn Miller

Musical features: Improvisation; syncopation; swing rhythms

African music combined with the music of the European settlers produced new styles of music including jazz, blues and ragtime.

Towards the end of the nineteenth century marching bands were popular in America. African American musicians began to jazz up the marches, adding syncopated rhythms, 'bending' notes and improvising on the melodies.

Ragtime

Set Work: The Entertainer, Scott Joplin

Musical features: predominantly piano-based; strong on-beat left hand accompaniment; syncopated right hand melody

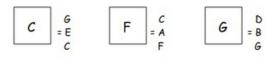
Ragtime was also a modification of the march style, with additional polyrhythms coming from African music. By the start of the 20th century, it became widely popular throughout North America and was listened and danced to, performed, and written by people of many different subcultures. A distinctly American musical style, ragtime may be considered a synthesis of African syncopation and European classical music.

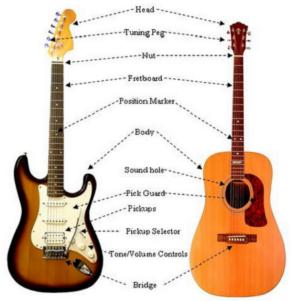
KE	YWORDS
1-12-bar Blues – A chord structure of 12-bars using chords I, IV and V.	7- Syncopation – playing on/stressing the weak beat.
2- Chord - 2 or more notes played simultaneously.	8- Off-beat - playing on the unaccented notes in a bar.
3- Walking Bassline – a bassline that moves by step.	9- Introduction – the first section of a piece before the verse starts.
4- Swung rhythm – a rhythm that emphasizes the first pair of quavers.	10- Coda – the ending section of a piece.
5- Blues Scale – a scale with a flattened 3 rd , 5 th and 7 th .	11- Vam p – a repeated, improvised accompaniment based around the chords.
6- Improvisation – making something up on the spot, within a given structure.	12- Guitar TAB –musical notation indicating fingering rather than musical pitches.



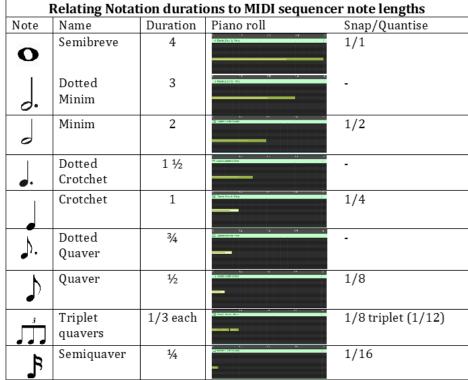
Chord sequence:

1. C	2. C	3. C	4. C
5. F	6. F	7. C	8. C
9. G	10. F	11. C	12. C

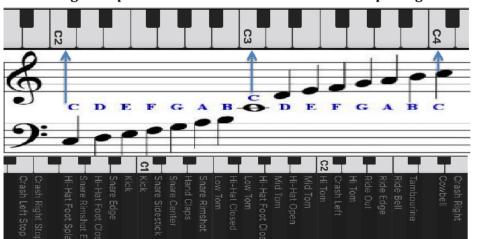




YEAR 8 — LENT TERM — MUSIC — SEQUENCING AND PRODUCTION



Relating stave pitches to DAW Piano & Drum rolls for inputting notes





KEYWORDS

- 1-DAW (Digital Audio Workstation): a digital system designed for recording and editing digital audio. It may refer to audio hardware, audio software, or both.
- 2-MIDI (Musical Instrument Digital Interface): the interchange

of musical information between musical instruments, synthesizers and computers.

- **3-MIDI controller**: any hardware or software that generates and transmits MIDI data to electronic or digital MIDI-enabled devices, typically to trigger sounds and control parameters of an electronic music performance.
- **4-Sequencer**: a software application or a digital electronic device that can record, save, play and edit audio files.
- **5-Arrange Window:** the main window of Logic Pro. It incorporates other Logic Pro editors and it's where you do most of your work.
- **6-Drum Machine**: An electronic device containing a sequencer that can be programmed to arrange and alter digitally stored drum sounds.
- **7-Tem po**: the pace or speed at which a section of music is played.
- **8-Quantise/Quantisation**: the rhythmic correction of audio or MIDI regions to a specific time grid.
- 9- Fader: a device for gradually increasing or decreasing the level of an audio signal.

Basic Functions of a DAW

Audio Recording: The basic function of any DAW is record audio. DAWs can handle dozens to hundreds of audio tracks without causing too much strain on most systems.

Audio Editing: Audio clips can be cut, copied and pasted.

Audio Routing/Mixing: DAWs generally have an edit window for recording, editing, and arranging clips; the other essential window is the mixer. It usually resembles a hardware mixer, with a fader to mix levels, input and output selection, pan, mute, and solo.

Applying Audio Effects: Audio effects can alter dynamics, time, placement, filter, pitch, and just about anything else you can think to do with audio. The most common effects are compression to level out audio, EQ to fix undesirable frequencies, and spatial/panning effects to place audio in different sonic locations.

Automating Effects: Effects don't have to be static, nor do you have to physically move a knob during a performance. Automation can alter any parameter of any effect over time.

Working with MIDI Data: DAWs read MIDI data, from notation programs and prior MIDI performances or programming. They also have the ability to write new MIDI data from controllers. The most common MIDI creation tool is the MIDI keyboard.

Playing Instruments with MIDI Data: All DAWs have a set of software instruments that can be assigned to your MIDI data, imitating the sound of any instrument you wish to use.

KEY QUESTIONS

Q1: Each box in the editing window is worth what note & duration length?

Semiquaver (1/4 beat)

Q2: On the Piano roll, which C is the same pitch as 'Middle C'?

miquator (iii bour

Q3: What is the name of the DAW that we use?

Logic Pro X

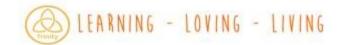
Q4: If I want to edit a note to be perfectly in time to the beat, I would use what function?

Quantisation

Q5: The Kick on a drum machine/drum kit is on which key of the drum roll?

C1 and/or B1

C3



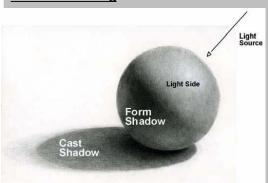
A. Key Terms

Keyword	Description
1. Tone	This refers to the lightness or darkness of something. This could be a shade or how dark or light a colour appears. Tones are created by the way light falls on a 3D object. The parts of the object on which the light is strongest are called highlights and the darker areas are called shadows .
2. Texture	This is to do with the surface quality of something, the way something feels or looks like it feels. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture.
3. 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
4. Media	The materials and methods used to produce a piece of art or design.
5. Composition	how objects or figures are arranged in the frame of an image
6. Annotation	Key information alongside your work. A record of your experiences, thoughts and emotions connected to an image.
7. Refinement	Developing your idea or image

B. Command Words

Keyword	Description
8. Study	To examine, consider, investigate, research and show an in-depth understanding of what you have found or experienced.
9. Explore	To investigate, examine and look into with an open mind about what might be found and developed.
10. Create	To conceive, make, craft or design something new or invent something.
11. Analyse	To examine in depth, study thoroughly, question, investigate and consider your own opinion or visual investigation of something

D. Tonal Shading



- 13. **Cast Shadow:** The shadow created by an object
- 14. Form Shadow: The shadow on an object
- 15. **Light Side**: The area of an object with the most light
- 16. **Light Source**: The Direction of the light in an image.

C. Value Scale

Denman Ross nine step value scale			
Value 1	Sample	Value Name white	
2		high light	
3		light	
4		low light	
5		midvalue	
6		high dark	
7		dark	
8		low dark	
9		black	

12. This is called a tonal scale. You will need to identify different light and dark values.

YEAR 8— LENT TERM – FOOD AND NUTRITION – DIET AND NUTRITION

EARNING - LOVING - LIVING

Key words: Nutrients and Eatwell Guide

- Wholegrain All parts of the cereal grain is used.
- 2. Nutrient - Chemical in food that give nourishment.
- 3. Energy - the strength needed for physical effort
- Immune system the body's defence against infectious diseases
- 5. Clotting - the process that blood undergoes to prevent bleeding
- 6. Antioxidant - a molecule that is able to stop the oxidation process in other
- 7. Haemoglobin – a protein responsible for transporting oxygen in the blood
- Saturated fats Type of fat mostly from animal sources 8.
- 9. Absorb - to take in or soak up
- Maintenance- routines that are necessary for keep the body in good health.
- Diabetes- a condition that causes a person's blood sugar level to become too high.
- Obesity- diet related disease where the body contains too much stored fat.
- Cardiovascular disease (CHD)- The narrowing of the arteries that supply your heart with oxygen rich blood, due to the build up of fatty deposits within the artery walls

Choose foods lower

Starchy Foods 1.

II Guide

alance of healthier and more ustainable food.

Provide slow release carbohydrate used by the body for energy

37%

3. Choose wholegrains for increased fibre (good digestion, reduced risk of heart disease)

The Eatwell Guide is the UK Healthy Eating Model. It shows what we should eat as a balanced diet. The size of the sections represents the proportion of our diet that particular food group should make up.

Water Intake A balanced diet must include water, it is required for nearly all brain and other bodily

Fats, Oils & **Spreads**

- Provide fat soluble vitamins A,D,E & K
- Are high in calories & energy so keep use to a minimum
- 3. choose unsaturate d oils like olive oil

8%

functions

1%

Fruits & Vegetables

1. Eat 5 portions s a day!

39%

- Choose a variety
- **Provides** fibre for healthy digestion
- **Provides** vitamins and minerals

Food high in sugar are saturated fats are not part of a healthy diet and should be eaten in moderation

Fat loss often and

3%

- increased risk of weight gain/obesity
- 2. diabetes
- tooth decay cardiovascular disease (CHD)

Beans, Pulses, Eggs, Meat, Fish

uses, 2 portions of sustainably one of which is oily. Eat less

12%

- Provide protein for growth, repair and maintenance of body cells
- Choose a combination of plant proteins
- Avoid eating too much processed meat like bacon and sausages

Dairy Foods

Choose unsaturated oils

- Provide calcium for healthy bones, teeth and nails
- 2. The body needs Vitamin D to absorb calcium effectively

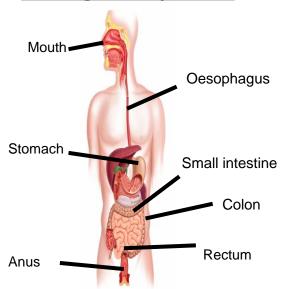
Nutrient	Function in the body		
1. Macronutrient:	Needed by the body because they are the main source of energy in the body for movement.		
Carbohydrates	Needed by the body for digestion. (fibre0		
(Starch, sugar, fibre)			
2. Macronutrient: Protein	Needed by the body for growth Repair the body when it is injured Gives the body energy (only if the body doesn't have enough carbohydrates		
3. Macronutrient: Fat	Insulates the body from the cold and provides a 'cushion' to protect bones and organs such as the kidneys The body breaks down the fat stores to release energy Vitamins A, D, E and K are fat soluble vitamins so are stored in our body fat and released when needed.		
1. Micronutrient: Vitamin A	Maintains normal vision Good maintenance of skin and the mucus membranes Helps with a healthy immune function Fat soluble		
Micronutrient: Absorption and use of calcium Maintenance and strength of bones and teeth Fat soluble			
3. Micronutrient: Vitamin E Antioxidant that helps protect cell membranes Maintains healthy skin and eyes Fat soluble			
4. Vitamin K	Normal clotting of the blood Fat soluble		
1. Micronutrient: Healthy nervous system Energy release from foods Vitamin B complex Water soluble			
2. Micronutrient: Vitamin C	Absorption of iron Production of collagen that binds connective tissues An antioxidant Water soluble		
1. Mineral Calcium	Strengthens bones and teeth Bones are able to reach peak bone mass Clots blood after injury Promotes nerves and muscles to work properly		
2. Mineral Iron Supports the production of haemoglobin in red Helps transport oxygen around the body Vitamin C is required for absorption of iron			
	34 1		

YEAR 8— LENT TERM – FOOD AND NUTRITION – DIET AND NUTRITION

	Keyword	Definition	
1	Gluten	A protein found in wheat flours, that makes the dough elastic	
2	Coeliac	An intolerance to Gluten which causes the inflamation of the intestine walls and	
	disease	damage them making nutrient absorbtion more difficult for the body	
3	Amylase	Releases when starch is heated and enables sauces to thicken	
4	Viscosity	The thicknes of a liquid	
5	Gelatinisati	When stood moutides well and bount third prince allowed	
	on	When starch particles swell and burst, thickening a liquid	
6	Durum	A yellowy, high-protein wheat that is grown especially for making pasta	
	wheat	A yellowy, high-protein wheat that is grown especially for making pasta	
7	Milling	The process which separates the different parts of the grain	
8	Semolina	A coarse-ground flour which comes from wheat	
9	Whole	The whole seed in its natural state, none of the layers have been removed	
	grain		
10	Gluten -free	Products which does not have any wheat, rye, barley and sometimes oats	
11	Al dente	'Firm to the bite' describes the texture of pasta	
12	Extraction	The keyword for how much of the orginal wheat grain is in the flour and used in	
	Rate	products	
13	Fermentati	A chemical breakdown of sugar to acid, gas or alcohol by bacteria, yeasts or other	
	on	microorganisms	
14	Proving	When bread is left to rest in a warm, damp environment to enable fermentation	
15	Germ	Part of the grain which provides fat and B vitamins, it is also used to grow new plants	
16	Glutenin	The two names of the proteins which are kneaded and stretched in the production of	
	and Gliadin	bread.	
17	Harvesting	The process of gathering or reaping crops	
18	Knock back	To re-knead the dough which knocks out some of the carbon dioxide allowing the	
		yeast to produce more carbon dioxide	
19	Starch	A polysaccharide and a complex carbohydrate	
20	Strong flour	A type of flour with the highest gluten content	
22	Unleavened	Refers to bread, cake and biscuits made without raising agents	
23	White flour	Contains just the endosperm, the bran and the germ have been removed	
24	Yeast	A microorgnaism belonging to the fungi family, made up of single oval cells that	
		reproduce by budding, this means they multiply and the one cell divides into two	
25	Weevils	Tiny black bugs that can live and breed in flour	



The digestion process



The gastrointestinal (GI) tract comprises:

- mouth;
- · oesophagus;
- stomach;
- small intestine duodenum, jejunum and ileum;
- liver and gall bladder;
- pancreas;
- colon
- anus.

Key questions:

- Name 2 properties of gluten that give bread its unique texture
- What needs to be added to glutenin and gliadin to make gluten?
- Describe the energy balance in one sentence.
- Name three enzymes that are involved in human digestion;
- Draw a flowchart to show how food passes through the digestive system, ensuring that each organ and stage is properly labelled.
- Where is pasta thought to have its origins?
- When making a white sauce, the starch grains in the flour swell and thicken the sauce. Name the process and describe how it happens with the aid of diagrams.
- Can you explain why sauces are used in the production of recipes/meals?

YEAR & — LENT TERM- ENGINEERING

MATERIALS AND SOLDERING PROCESS M1 Manufacturedmake (something) on a large scale using machinery. in an electric circuit. 4. Cut the wood using a bench hook and tenon saw

5. Using the piece of wood as a

measure, draw

around the piece.



M2 Switcha device for making and

container in which breaking the connection chemical energy is converted into electricity and used as a source of power.

M3 Battery—a

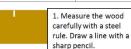


M4 Motor - a machine, especially one powered by electricity that supplies motive power for a device with moving

parts.

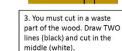
S1 Strip the wires—Use the wire strippers to remove the insulating plastic













6. Using the tenon saw remove half the wood to make the half joint.



S2 Twist the wires - the cable is stranded cabletwist the wires together



S3 Solder the wiresuse a bead of solder to make a permanent join.



S4 Apply tape to secure—wrap the join in electrical tape to seal.



TYPES OF WOOD

Softwood-noun The wood from a conifer (such as pine, fir, or spruce) as distinguished from that of broadleaved trees.



Hardwood-noun The hard, compact wood or timber of various trees, as the oak, cherry, maple, or mahogany.

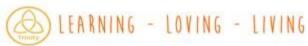
CAR PARTS

Axel - a rod or spindle (either fixed or rotating) passing through the centre of a wheel or group of wheels.

Chassis - the base frame of a car, carriage, or other wheeled vehicle.

Motor - a machine that supplies motive power for a vehicle or for another device with moving parts.

(T) TOOLS AND EQUIPMENT Coping saw - cutting curves Bench hook - holding wood Glass paper - file filing Tenon Saw – cutting straight Hand file - rapid filing Pillar drill - making holes Steel rule - accurate measure Disc sander - rapid sanding



PROPERTIES AND CHARACTERISTICS OF MATERIALS				
>	Absorbency	To be able to soak up liquid easily.		
	Strength	The capacity of an object or substance to withstand great force or pressure.		
2	Elasticity	The ability of an object or material to resume its normal shape after being stretched or compressed; stretchiness.		
8/3	Plasticity	The quality of being easily shaped or moulded.		
	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.		
The state of the s	Durability	The ability to withstand wear, pressure, or damage.		

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 & SAFETY LEGISLATION				
Health and Safety at work Act	Personal Protective Equipment	Manual Handling Operations	Control of Substances Hazardous to Health	Reporting of Injuries RIDDOR

YEAR 8— LENT TERM — FRANÇAIS – STUDIOZRED — MOD3. VOCABULAIRE — MON IDENTITÉ

Semaine 1

Les rapports • Relationships

s'amuser to have fun se chamailler to squabble

se confier des secrets to tell each other secrets se dire to tell each other

se disputer to argue s'entendre to get on se fâcher to get angry

Semaine 2

Les opinions • Opinions

Mon chanteur/ma My favourite singer is ... chanteuse préféré(e),

c'est ...

Mon groupe préféré, My favourite group is ... c'est ...

J'adore/Je déteste I love/I hate X's music. la musique de X.

J'adore la chanson ... I love the song ...
Ça me donne envie de ... It makes me want to ...
danser/chanter/pleurer/ dance/sing/cry/sleep

danser/chanter/pleurer/ dormir

Ça me rend joyeux/ It makes me happy/

La musique • Music

joyeuse/triste.

le hard rock hard rock le jazz jazz la musique classique classical music le pop-rock pop le rap rap le R'n'B R'n'B un peu de tout a bit of everything les chorégraphies choreography les mélodies tunes

Semaine 4 – partie A

words

Le style • Style

les paroles

J'ai un style plutôt ... My style is rather ... classique classic décontracté relaxed skateur skater sportif sporty C'est... It's ... moche ugly horrible horrible cool cool chic chic

Mon caractère • My character

Je pense que je suis ... I think I'm ... I'm not ... Je ne suis pas .. Je ne suis pas du tout ... I'm not at all ... Mon meilleur ami/Ma My best friend is ... meilleure amie est ... adorable adorable arrogant(e) arroaant amusant(e) funny casse-pieds annoying curieux/curieuse curious débrouillard(e) resourceful drôle funny égoïste selfish gentil(le) nice intelligent(e) intelligent optimiste optimistic paresseux/paresseuse lazy patient(e) patient pénible annovina pessimiste pessimistic rigolo(te) funnv sociable sociable

nice

Semaine 3

Les vêtements • Clothes

sympa

Normalement, je porte ... Normally, I wear ... des baskets trainers des bottes boots des chaussures shoes une chemise a shirt un chapeau a hat un jean ieans une jupe a skirt un pantalon trousers un pull a jumper un sweat à capuche a hoodie un tee-shirt a T-shirt une veste a jacket

Les couleurs • Colours

beige beige blanc(he) white bleu turquoise turquoise gris(e) grey marron chocolat chocolate brown noir(e) black orange orange khaki vert kaki



Semaine 4 – partie B

Au futur • In the future

Qu'est-ce que tu vas faire/porter? What are you going to do/wear? ce weekend this weekend cet été the was what are you going to do/wear?

Les interjections • Interjections

 alors
 so

 ben
 well

 euh
 huh

 ouah!
 wow!

 voyons
 let's see

Semaine 5

Special Test: you will only translate from English into French.

Revise the spelling of all vocabulary learnt in Lent 1

Les mots essentiels • High-frequency

words with avec bien well comme d'hab as usual en général in general en plus in addition ensemble together même same normalement normally at times par moments partout everywhere plutôt rather quand when sinon otherwise surtout especially souvent often tout(e) all, every all the time tout le temps really vraiment

YEAR 8— LENT TERM — FRANÇAIS- STUDIOZRED — MOD4. VOCABULAIRE MA ZONE!



Semaine 1 Les adjectifs • Adjectives Les domiciles • Homes petit grand j'habite **Ilive** beau/belle la maison house joli(e) l'appartement (m) flat vieux/vieille street/road la rue nouveau/nouvelle à la campagne in the country neuf/neuve dans un village in a village moderne dans une ville in a town confortable es adjectifs • Adjectives

small

pretty

old

beautiful

big

small big beautiful pretty old new brand new modern comfortable big (for animals and gros(se)

objects)/fat

Semaine 2

petit

grand

joli(e)

beau/belle

vieux/vieille

Les adjectifs • Adjectives

petit small grand big beautiful beau/belle ioli(e) pretty vieux/vieille old nouveau/nouvelle new neuf/neuve brand new moderne modern confortable comfortable big (for animals and gros(se) objects)/fat

Les pièces • Rooms

Chez moi, il y a ... In my home, there is/ are... la chambre (de mes (my parents'/my parents/de ma sœur) sister's) bedroom ma chambre mv bedroom la cuisine kitchen le jardin garden la salle à manger dining room la salle de bains bathroom le salon living room les toilettes toilet Il n'y a pas de ... There isn't a .../There aren't any ...

Semaine 3

Les prépositions • Prepositions

dans/devant in/in front of derrière behind entre between sous under(neath) sur on à côté de next to à droite de/à gauche de on the right of/on the left of en face de opposite

Les meubles et les appareils

Furniture and appliances

l'armoire (f) wardrobe le bureau desk le canapé/la chaise sofa/chair la douche shower la fenêtre window le frigo fridge le lavabo wash basin le lit bed la machine à laver washing machine la télé (satellite) (satellite) TV

Le dîner • Evening meal

du fromage/du poisson cheese/fish du poulet/du riz chicken/rice de la soupe soup de la viande meat des crêpes pancakes des crudités crudités des escargots snails des légumes vegetables des pâtes pasta des plats à emporter takeaway food des pommes de terre potatoes des tomates tomatoes un fruit a piece of fruit un steak-frites steak and chips un vaourt a voghurt une mousse au chocolat a chocolate mousse Je suis végétarien(ne). I'm a vegetarian.

Le petit déjeuner • Breakfast

Qu'est-ce que tu prends What do you have for breakfast? pour le petit déjeuner? Je mange/Je prends ... I eat/I have ... du beurre/du pain butter/bread de la confiture jam des céréales cereals un croissant a croissant un pain au chocolat a pain au chocolat une baguette a baguette une brioche a brioche (sweet loaf) une tartine a slice of bread and butter Je bois/Je prends ... I drink/I have ... du café/du lait/du thé coffee/milk/tea du chocolat chaud hot chocolate du jus d'orange orange juice

Semaine 5

Special Test: you will only translate from English into French. Revise the spelling of all vocabulary learnt in Lent 2.

Les provisions • Food shopping

Il faut acheter ... I/We/You must buy ... du chocolat chocolate du fromage/du jambon cheese/ham whipped cream de la crème Chantilly de la farine flour des bananes bananas mushrooms des champignons des fraises strawberries des œufs eggs des pommes apples

Les quantités • Quantities

a litre of ... un litre de ... un paquet de ... a packet of ... a slice of ... une tranche de ... cinq cents grammes de ... 500 grams of ... un kilo de ... a kilo of ... une tablette de .. a bar of ... une bombe de ... a spray can of ...

Les mots essentiels • High-frequency words

chez (exemple: chez moi) at someone's home (e.g. at my home) ici here là there là-bas over there voici here is/here are plus more moins less ilya there is/there are for pour

YEAR &— LENT TERM — SPANISH — VIVALIBRO2— MOD3. VOCABULARY A COMER



Semana 1

¿Qué te gusta comer	y beber? What do you	like to eat and drink?	
¿Qué no te gusta comer/ beber?	What don't you like to eat/drink?	los caramelos la fruta	sweets fruit
Megusta(n) mucho	I really like	las hamburguesas	hamburgers
Me encanta(n)	Hove	los huevos	eggs
No me gusta(n) nada	I don't like at all.	la leche	milk
Odio	Ihate	el marisco	seafood/shellfish
Prefiero	I prefer	el pescado	fish
elagua	water	el queso	cheese
elarroz	rice	las verduras	vegetables
la carne	meat		

Semana 2

¿Qué desayunas?	What do you have for breakfast?		
Desayuno	For breakfast I have	Como	leat/For lunch I have
cereales	cereal	un bocadillo	a sandwich
churros	churros (sweet fritters)	¿Qué cenas?	What do you have for
tostadas	toast		dinner?
yogur	yogurt	Ceno	For dinner I have
café	coffee	patatas fritas	chips
Cola Cao™	Cola Cao (chocolate drink)	pollo con ensalada	chicken with salad
té	tea	¿A qué hora desayunas/	At what time do you have
zumo de naranja	orange juice	comes/cenas?	breakfast/lunch/dinner?
No desayuno nada.	I don't have anything for	Desayuno a las siete.	I have breakfast at 7:00.
	breakfast.	Como a las dos.	I have lunch at 2:00.
¿Qué comes?	What do you have for lunch?	Ceno a las nueve.	Thave dinner at 9:00.

Semana 3

En el restaurante	At the restaurant		
buenos días	good day, good morning	nada más	nothing else
¿Qué va a tomar	What are you (singular)	La cuenta, por favor.	The bill, please.
(usted)?	going to have?	la ensalada mixta	mixed salad
¿Qué van a tomar	What are you (plural)	los huevos fritos	fried eggs
(ustedes)?	going to have?	la sopa	soup
¿Y de segundo?	And for main course?	elpan	bread
¿Para beber?	To drink?	las chuletas de cerdo	pork chops
¿Algo más?	Anything else?	el filete	steak
Voy a tomar	I'll have	el pollo con pimientos	chicken with peppers
de primer plato	as a starter	la tortilla española	Spanish omelette
de segundo plato	for main course	el helado de chocolate/	chocolate/strawberry/
de postre	fordessert	fresa/vainilla	vanilla ice cream
Tengo hambre.	I am hungry.	la tarta de queso	cheesecake
Tengo sed.	I am thirsty.	la cola	coke

Semana 4

Una fiesta mexicana	A Mexican party		
¿Qué vas a traer/	What are you going to	un pimiento verde/rojo	a green/red pepper
comprar?	bring/buy?	un aguacate	an avocado
Voy a traer	I'm going to bring	un kilo de tomates	a kilo of tomatoes
quesadillas	quesadillas (toasted	medio kilo de queso	half a kilo of cheese
	cheese tortillas)	200 gramos de pollo	200 grammes of chicker
limonada	lemonade	un paquete de tortillas	a packet of tortilla wraps
Voy a comprar	I am going to buy	una botella de limonada	a bottle of lemonade
una lechuga	alettuce		

Semana 5

Una fiesta mexicana	A Mexican party		
¿Qué vas a traer/	What are you going to	un pimiento verde/rojo	a green/red pepper
comprar?	bring/buy?	un aguacate	an avocado
Voy a traer	I'm going to bring	un kilo de tomates	a kilo of tomatoes
quesadillas	quesadillas (toasted	medio kilo de queso	half a kilo of cheese
	cheese tortillas)	200 gramos de pollo	200 grammes of chicken
limonada	lemonade	un paquete de tortillas	a packet of tortilla wraps
Voy a comprar	I am going to buy	una botella de limonada	a bottle of lemonade
una lechuga	alettuce		

Semana 6

ċY tú? ċQué opinas?	And you? What do you think?		
Pues	Well	Eh	Er
Depende	It depends	Aver	Let's see
No sé	I don't know	Bueno/Vale	OK
	iendo l'm sorry, but l		
¿Qué significa ''?	What does '' mean?	¿Puedes hablar más	Can you speak more
¿Puedes repetir?	Can you repeat that?	despacio, por favor?	slowly, please?

Palabras muy frecuentes High-frequency		ency words		
a las	at o' d	clock	lugar	place
bastante	quite		para	for
día	day		por ejemplo	for example
favorito/a	favour	te	pasado/a	last
hora	time		que viene	next

Special Test: you will only translate from English into Spanish Revise the spelling of all vocabulary learnt in Lent 2.

Assessments: Speaking and Listening

YEAR 8— LENT TERM — SPANISH– VIVALIBRO2— MOD4. VOCABULARY ¿QUÉ HACEMOS?



Semana 1

¿Te gustaría ir al cine? Would you like to go to the cinema?

¿Te gustaría ir...? Would you like to go...? al parque to the park a la bolera to the ice rink to the bowling alley a la pista de hielo a la cafetería to the café al polideportivo to the sports centre al centro comercial to the shopping centre ¿Te gustaría venir a Would you like to come to mi casa? my house? al museo to the museum

Semana 2

Reacciones Reactions

All right. iNi hablar! De acuerdo. No way! OK. Vale. iNi en sueños! Not a chance!/Not in your Muy bien. Very good. wildest dreams! iGenial! Great! No tengo ganas. I don't feel like (it). Sí, me gustaría mucho. Yes, I'd like that very iQué aburrido! How boring! much.

¿Dónde quedamos? Where do we meet up?

al lado de la bolera next to the bowling alley enfrente del opposite the sports delante de la cafetería in front of the café polideportivo centre detrás del centro behind the shopping at your house en tu casa comercial centre

Semana 3

¿A qué hora?	At what time?		
on que nora.	Al Wildi Illie.		
a las	at	seis y media	half past six
seis	six o'clock	siete menos cuarto	quarter to seven
seis y cuarto	quarter past six	siete menos diez	ten to seven
Lo siento, no pu	uedo l'm sorry, I can't		
¿Quieres salir?	Do you want to go out?	pasear al perro	walk the dog
Tengo que	I have to	salir con mis padres	go out with my parents
cuidar a mi herma	no look after my brother	No quiero.	I don't want to.
hacer los deberes	do my homework	No tengo dinero.	I don't have any money.
lavarme el pelo	wash my hair	No puede salir.	He/She can't go out.
ordenar mi dormit	corio tidy my room		

Semana 4

¿Cómo te preparas?	How do you get read
¿Cómo te preparas	How do you get ready
cuando sales de fiesta?	when you go to a party?
Me baño.	I have a bath.
Me ducho.	Thave a shower.
Me lavo la cara.	I wash my face.
Me lavo los dientes.	I brush my teeth.

•	
Me visto.	I get dressed.
Me maquillo.	I put on make-up.
Me peino.	I comb my hair.
Me aliso el pelo.	I straighten my hair.
Me pongo gomina.	I put gel on my hair.

Semana 5

¿Qué vas a llevar? V	What are you going to	vear?	
¿Qué llevas normalmente	What do you normally	unagorra	асар
los fines de semana?	wear at weekends?	unos pantalones	some trousers
Normalmente los fines	At weekends I normally	unos vaqueros	some jeans
de semana llevo	wear	unas botas	some boots
una camisa	ashirt	unos zapatos	some shoes
una camiseta	a T-shirt	unas zapatillas de deport	e some trainers
unjersey	ajumper	¿Vas a salir esta noche?	Are you going to go out
una sudadera	a sweatshirt		tonight?
una falda	askirt	Voy a ir al/a la	I am going to go to the
un vestido	a dress	Voy a llevar	I'm going to wear

Semana 6

Los colores	Colours			
amarillo/a		yellow	naranja	orange
azul		blue	negro/a	black
blanco/a		white	rojo/a	red
gris		grey	rosa	pink
marrón		brown	verde	green
morado/a		purple	de muchos colores	multi-coloured
				, and the second se
iNo es justo!	It's not	fair!		
Estoy de acuero	lo	Lagree	Eres demasiado joven.	You're too young.
con tu madre/p	adre	with your mother/father	En mi opinión, tienes	In my opinion, you're right.
con tus padres		with your parents	razón.	A - 18
contigo		with you	¿Tú qué opinas?	What do you think?

Palabras muy fi	recombes High	-frequency words	
al/a la	to the	este/esta/estos/estas	this/these
del/de la	ofthe	poreso	for this reason
demasiado/a	too (much)	porsupuesto	ofcourse
demasidos/as	too many	iLo pasé fenomenal!	I had a fantastic time!

Special Test: you will only translate from English into Spanish Revise the spelling of all vocabulary learnt in Lent 2.

Assessments: Speaking and Listening



Key term	Definition
1. Employment	When an individual works part-time or full-time under a contract of employment.
2. Labour market	The supply and demand for labour (employees provide the supply and employers the demand).
3. Labour force	All people who are of working age, and able and willing to work.
4. Employee	Someone who is paid to work for someone else.
5. Employer	A person or organization that you work for.
6. Salary	A fixed regular payment, typically paid on a monthly basis but often expressed as an annual sum.
7. Wage	A fixed regular payment earned for work or services, typically paid on a daily or weekly basis.
8. Bonus	An extra amount of money given to an employee, often based on work performance.
9. Contract	A contract is an agreement that sets out an employee's employment conditions, rights, responsibilities & duties.
10. Economy:	System of how money is made and used within a particular country or region.
11. Economic Growth	An increase in the capacity of an economy to produce goods and services.
12. Trade	To take part in the exchange, purchase, or sale of goods and services.
13. Industry	A group of manufacturers or businesses that produce a particular kind of goods or services.
14. Unemployment	When a person who is actively searching for employment is unable to find work.

The 5 Sectors of the Economy.

Primary Sector: this involves acquiring raw materials. For example, metals and coal have to be mined, oil drilled from the ground, rubber tapped from trees, foodstuffs farmed and fish trawled. This is sometimes known as extractive production.

Secondary Sector: this is the manufacturing and assembly process. It involves converting raw materials into components, for example, making plastics from oil. It also involves assembling the product, e.g. building houses, bridges and roads.

Tertiary Sector: this refers to the commercial services that support the production and distribution process, e.g. insurance, transport, advertising, warehousing and other services such as teaching and health care.

Quaternary Sector: this sector includes government, culture, libraries, scientific research, education, and information technology. These intellectual services and activities are what drives technological advancement, which can have a huge impact on short- and long-term economic growth.

Quinary Sector: this contains the highest levels of decision making in a society or economy, including top executives or officials in such fields as government, science, universities, non-profit, health care, culture, and the media. It may also include police and fire departments, which are public services as opposed to for-profit enterprises.

YEAR 8— LENT TERM — PSHE — WORK RELATED LEARNING

a	LEARNIN	r 101	LIMIC	LIVING
Trinity	LEUDININ	0 LUY	1110	FIAIMO

Key Term	Definition
1. Career	The job or series of jobs you do during your working life.
2. Occupation	Your job or profession.
3. Promotion	When an employee moves from one job or position to another that is higher in pay, responsibility, and status.
4. Redundancy	When an employer no longer requires the job role that is being carried out by an employee.
5. Retire	To leave your profession or job and end your active working life.
6. Pension	An amount of money paid regularly by the government or private company to a person who has retired.
7. Apprenticeship	Apprenticeships combine practical training in a job with study.
8. Internship	A period of work experience offered by an organization for a limited period of time, either paid or voluntary.
9. Traineeship	A traineeship is a course that includes a work placement. It can last from 6 weeks up to 6 months.
10. CV	A document that presents your skills and qualifications effectively and clearly.
11. Cover Letter	A letter that should accompany your application form or CV. It is short, introduces you, and explains why you are applying for a job.
12. Job Interview	A meeting in which an employer asks the person applying for a job questions to see whether they suitable.
13. Video Resume	A short video created by a candidate for employment and uploaded for prospective employers to review.
14. Entrepreneur	A person who sets up a business or businesses, taking on financial risks in the hope of profit.

What is the future of the Labour Market?

Young people will have longer careers. Rising life expectancy means young people will have an extended number of years in the workforce and will need to be **adaptable** and **flexible**.

A rise in average qualification levels will make a **lack of skills and qualifications** a bigger barrier to finding work and building a career.

More opportunities for young people to **work flexibly** with changes in technology and employment policy such as job share, remote working and flexible office space.

The working population will be **more diverse** with more younger, older, women & people with disabilities joining the labour market.

The growth in sectors such as **health** and **social care** is likely to continue to grow, and the nature of work will continue to change.

Key Term	Definition
1. Ambitious	Having or showing a strong desire and determination to work hard and succeed.
2. Motivated	Enthusiastic or determined to achieve goals.
3. Reliable	Someone who can be trusted to behave well, work hard and do what is expected of them.
4. Persistent	Refusing to give up or stop trying.
5. Team Player	A person who plays or works well as a member of a team
6. Self-Starter	A person sufficiently motivated or ambitious to work on their own initiative without needing direction.