

<u>CONTENTS PAGE</u>



PAGE NUMBER	SUBJECT	TOPIC
1-3	General information	Knowledge Organiser guidance, How do I use a knowledge organiser, How to revise effectively
4-6	English	Poetry from other cultures, Shakespearean Rhetoric, Vocabulary
7-9	Mathematics	Number, calculations
10-16	Science	Atoms and elements, Cells, Energy and heat transfer, Levels or organisation
17-21	Geography	Brazil, Tectonic Hazards
22-23	History	Pre 1066 and Norman invasion, Norman England
24-27	Religious Education	Christianity- New and Old Testament
28-30	Physical Education	Football, Rugby, Trampoline
31-32	Drama	Foundations of drama
33-36	Music	Reading Notation and Instrumental Skills, Strings, Woodwind, Brass
37- 38	Food and Nutrition	Introduction to food
39	Engineering	Engineering
40- 41	Computing	The Bigger Picture, problem solving
42	Art	Developing Key Skills
43- 46	Spanish	Vocabulary Mi vida
47- 48	French	Bienvenue
49- 50	PSHE	Diet and Fitness

WHAT IS A KNOWLEDGE ORGANISER?

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

When used effectively, Knowledge Organisers are useful in:

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

HOME LEARNING EXPECTATIONS

EACH NIGHT pupils should spend at least **1** hour per night on homework. <u>3 subjects per night x 20 minutes per subject= 1 hour.</u>

The homework timetable is to be filled out as a guide to what subjects to complete each night.

Subject teachers will use Microsoft **TEAMS** to set home work activities which will contain an element of knowledge retrieval practise and will relate to knowledge organiser content revised throughout the week.

In Family Group Time, retrieval practice techniques will be modelled by family group leaders.

All retrieval practice work in your **KNOWLEDGE ORGANISER exercise book** and make sure you bring your knowledge organiser to school EVERYDAY (these can slide into your coloured folder).

Knowledge Organiser **BADGES** will be given out in Family Group time to the student who has made progress on Knowledge Recall tests or has shown an exemplary effort in KO retrieval practice throughout the week.

<u>MICROSOFT TEAMS</u>

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

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



<u>HOMEWORK TIMETABLE</u>					
Year 7	Subject 1	Subject 2	Subject 3		
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					

ADDITIONAL HOMEWORK

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

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

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.

EQUIPMENT CHECKLIST

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

HOW DO I USE A KNOWLEDGE ORGANISER?

Each week Family Group Leaders will **explain** and **model** retrieval practice techniques that will help you retain knowledge from your knowledge organiser AND for revision in the future. There are also some videos on the **Trinity Website** that explain the techniques of using the knowledge organiser for retrieval practice.

Copyright @ 2018 Methods of Retrieval Practice Before you start put away all your books & classroom materials. @ImpactWales QUIZZING BRAIN DUMP Retrieval Practice Write, draw a picture, create a mind-map on Examples Create practice questions on a topic. Swap everything you know about a topic. your questions with a partner & answer. * Exit Tickets Question - What is a metaphor? *Starter quizzes Give yourself a time A comparison using 'Like, as than limit, say 3 minutes * Multiple choice then have a look at A comparison where one thing is another. quizzes your books & add a A comparison with a human attribute. few things you forgot. *Short answer tests * Free write KNOWLEDGE ORGANISERS FLASHCARDS Create your own flashcards, question on one Complete a knowledge organiser template *Think, pair, for key information about a topic. side answer on the other. Can you make links between the cards? Share Draw a picture Definition *Ranking & You can use Sorhing You need to repeat the Q&A knowledge organisers to learn new vocab process for Hashcards you Topic What is .. t make links in Non-examples *Challenge grids Examples fail on more frequently \$ 7×8=? between subjects or less frequently for those you ideas. answer correctly

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

EARNING — LOVING — LIVING

HOW TO REVISE EFFECTIVELY- THE SCIENCE OF LEARNING

DUAL CODING

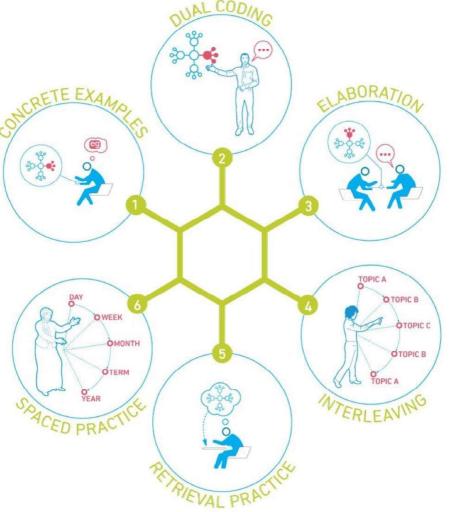
Dual coding is the process of combining visual and written materials. You can visually represent materials using methods such as info graphics, timelines, cartoon/comic strips, diagrams and graphic organisers. Combing images with words or explaining an image makes it more likely to 'stick'.



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.

INTERVLEAVING

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

<u>YEAR 7- MICHAELMAS TERM — ENGLISH- POETRY FROM OTHER CULTURES</u>



	Technique/Vocabulary	Definition	Example/effect
1	Alliteration (n) Alliterative (adj)	When words in a sentence start with the same letter	Silence for spectroscopic Flight of fancy,
2	Caesura (n)	A pause within or at the end of a line, often using a full stop	It allows an idea to be given a sense of importance or to highlight something shocking
3	Enjambment (n)	the continuation of a sentence without a pause beyond the end of a line, couplet, or stanza	This allows a poet to continue or develop a train of thought or idea
4	Consonance (n)	Repetition of consonant sounds	Her accent was <u>c</u> linical, <u>c</u> rushing in its light Impersonality
5	Assonance (n)	Internal vowel rhyme	Dem tell me bout <u>ole</u> King <u>Cole</u> was a merry <u>ole soul</u> but dem never tell me bout Mary Sea <u>cole</u>
6	Sibilance (n) Sibilant (adj)	The 'S' sound, normally several of these in a row.	Silence. Silenced transmission of Pressurized good-breeding
7	Symbolism (n) Symbolic (adj)	The idea of words or phrases representing something else	Red booth. Red pillar box. Red double-tiered Omnibus squelching tar
8	Onomatopoeia (n) Onomatopoeic (adj)	Words that sound like the noise they describe	to surge of wheels to dull North Circular <u>roar</u>
9	Metaphor (n) Metaphorical (adj)	a figure of speech in which a word or phrase is applied to an object or action to which it is not literally applicable	as the blessing sings over their small bones
10	Simile (n)	A figure of speech where two things are compared using 'like' or 'as'	Brash with glass, name <u>flaring like a flag</u>
11	Oxymoron (n) Oxymoronic (adj)	When contradictory terms or ideas are put next to each other	crushing in its light Impersonality
12	Rhythm (n) rhythmic (adj)	The pattern or beat of a poem	It contributes to the tone and mood of the text
13	Juxtaposition (n) Juxtapose (v)	Putting two things close together to create a contrasting effect	they used to shake hands with their hearts:, but that's gone, son. Now
			they shake hands without hearts
14	Stanza (n)	The name for a verse in a poem	N/A
15	Refrain (n)	A repeated part in a poem, like a chorus	N/A
16	Semantic Field	A group of words with similar meanings	It allows a poet to develop a mood, theme or idea across the poem.
17	Polysemic (adj)	More than one meaning	It facilitates multiple interpretations
18	Emotive Language	Language that is charged with emotion	Intending to provoke an emotional reaction
19	Imagery (n)	Creating pictures in the readers' heads using words	N/A
20	Accentuate (v)	To highlight or make something obvious	By repeating the word 'red', Soyinka accentuates his anger at discovering that the Landlady is prejudicial and racist.
21	Connotation (n)	Connected or deeper meanings or feeling behind a word	The word 'emerald' has connotations of treasure, value and beauty.
22	Irony (n) Ironic (adj)	Humour using opposites	It is ironic that the landlady thinks Soyinka is stupid as he is clearly the more intelligent person.
23	Satire (n) satirise (v) satirical (adj)	The use of humour to mock or ridicule stupidity or ignorance, often aimed at the powerful	Half Caste satirises racism by criticizing the language of classification.
24	Derogatory (adj) derogate (v)	Rude and disrespectful language	Agard's poem demonstrates the derogatory nature of the phrase 'half- caste'.

<u>YEAR 7- MICHAELMAS TERM — ENGLISH — SHAKESPEAREAN RHETORIC</u>



	Rhetorical	Definition	Example			
	Technique					
1	Anaphora	Starting each sentence with the same word	'This royal throne of kings, this scepter'd isle,		of kings, this scepter'd isle,	
			This earth of m		esty, this seat of Mars' Richard II	
2	Hypophora	Asking a question then answering it straight afterwards	ʻlf a Jew wr Venice	ong a	Christian, what is his humility? Revenge.' Merchant of	
3	Epiplexis	A series of rhetorical questions			ase that would be a bondman?Who is here so rude that poman? Julius Caesar	
4	Aposiopesis	A pause-when someone doesn't finish a sentence ()			evenges on you both shall- I will do such things-' King Lear	
5	Antithesis	First you mention one thing, then you mention another. Both elements are often opposites	'The fewer	men, t	the greater share of honour.' Henry V	
6	Parallelism	Giving two or more parts of the sentences a similar form and structure so as to give the passage a definite pattern	'Fear'd by t	heir bı	reed and famous by their birth' Richard II	
7	Epistrophe	When you end each sentence or clause with the same word	As he was v Caesar	aliant	, I honor him. But, as he was ambitious, I slew him' Julius	
8	Tricolon	Three ideas in a row	'Friends, Ro	mans	, Countrymen, lend me your ears.' Julius Caesar	
9	Polyptoton	The repeated use of one word as different parts of speech or in different grammatical forms	'With eager feeding food doth choke the feeder' Richard II		ng food doth choke the feeder' Richard II	
10	Imperative	Giving a command or order to the listener or audience	'Stiffen the		the sinews, summon up the blood' Henry V	
	Appeals	Definition				
11	Ethos	An appeal to the authority or credibility of the presenter. It is how well the presenter convinces the audience that he or she is qualified to present (speak) on the particular subject.				
12	Logos	This is logical appeal or the simulation of it, and the term logic is derived from it. It is normally used to describe facts and figures that support the speaker's claims or thesis. Having a logos appeal also enhances ethos because information makes the speaker look knowledgeable and prepared to his or her audience				
13	Pathos	It is an appeal to the audience's emotions, and the terms pathetic and empathy are derived from it. It can be in the form of metaphor, simile, a passionate delivery, or even a simple claim that a matter is unjust			e in the form of metaphor, simile, a passionate delivery, or	
	Keyword	d Definition			Shakespearean Dates	
14	Soliloquy	a device often used in drama when a character speaks to himself or herself		20	1.1564- Born in Stratford Upon Avon	
15	Philippic	a bitter attack or denunciation, especially a verbal one		21	2. 1599- First Globe theatre built	
16	Diatribe	a forceful and bitter verbal attack against someone or something		22	3. 1616- Shakespeare Died	
17	Metaphor	a figure of speech in which a word or phrase is applied to an object or action to which it i literally applicable.	s not	23	4. Queen Elizabeth I ruled from 1558-1603	
18	Introspection	the examination or observation of one's own mental and emotional processes		24	5. King James I ruled from 1603-1625	
19	Personification	ion Giving human qualities to something not human			5	

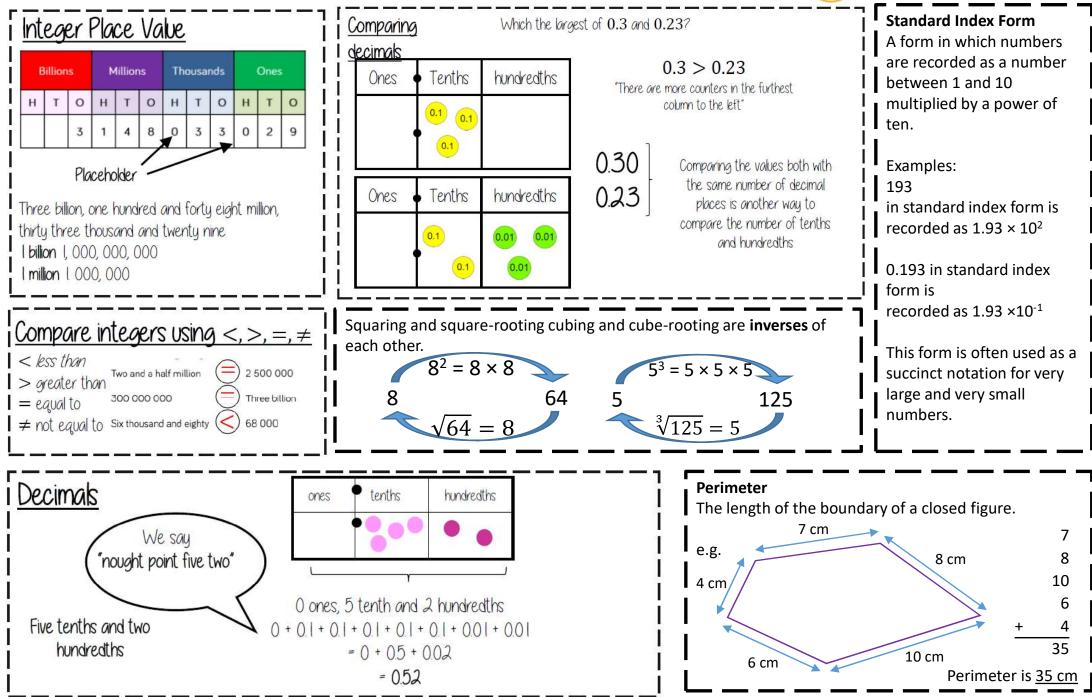
<u>YEAR 7- MICHAELMAS TERM — ENGLISH — VOCABULARY</u>



Poet	Poetry from Other Cultures			Shakespearean Rhetoric		
	Word	Definition		Word	Definition	
1	Apathy (n) Apathetic (adj)	Lack of interest in or concern for things that others find moving or exciting.	16	Sedition (n)	Rebelling against the government	
2	Discrimination (n) Discriminate (v)	Make an unjust or prejudicial distinction in the treatment of different categories of people, here one country takes, occupies and rules another	17	Credible (adj) Credibility (n)	How believable something is	
3	Oppression (n) Oppress (v) Oppressor (n)	The exercise of authority or power in a burdensome, cruel or unjust manner.rtain, not specific or precise	18	Oratory (n) Orator (n)	Public speaking	
4	Empathy (n) Empathetic (adj)	The ability to understand and share the feelings of another	19	Rouse (v) Rousing (adj)	Exciting and inspiring (of a speech)	
5	Indifferent (adj) Indifference (n)	Unconcerned, not caring, having no opinion.	20	Antithesis (n) Antithetical (adj)	Opposites	
6	Plight (n)	A difficult or horrible situation	21	Domineer (v) Domineering (adj)	Assert your will in an arrogant way. Bossy	
7	Authoritarian (adj) Authoritarianism (n)	Strict, bossy, expecting obedience	22	Patriotism (n) Patriotic (adj)	A love for your country	
8	Mundane (adj)	Boring, lacking interest, dull	23	Implore (v)	To beg desperately for something	
9	Denounce (v) Denunciation (n)	A public statement that something is wrong	24	Subtle (adj) Subtlety (n)	Using soft or indirect methods to do something	
10	Berate (v)	To scold or criticise angrily	25	Defer (v) Deferential (adj)	Showing polite respect to someone powerful	
11	Scathing (adj)	Severely and strongly critical	26	Undermine (v)	To lessen the effectiveness or power of something, to go against someone's power	
12	Apartheid (n)	Racial segregation in South Africa	27	Futile (adj) Futility (n)	Pointless or useless	
13	Brutal (adj) Brutality (n)	Savage, cruel and inhuman	28	Allude (v) Allusion (n)	Suggest or hint at something	
14	Disparity (n)	A great difference	30	Resent (v) Resentment(n)	Feeling bitter towards something	
15	Deprive (v) Deprivation (v)	Lacking the basics in life	31	Contempt (n) Contemptuous (adj)	A feeling that something is worthless	

YEAR 7- MICHAELMAS TERM — MATHEMATICS - NUMBER

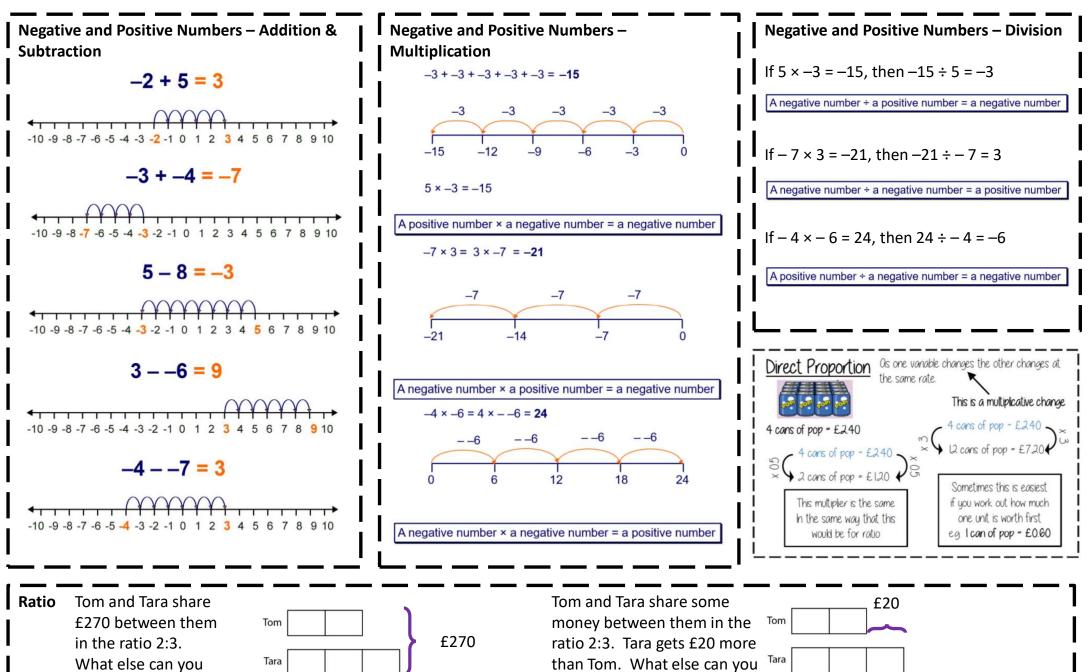




YEAR 7- MICHAELMAS TERM — MATHEMATICS - CALCULATIONS

find out?

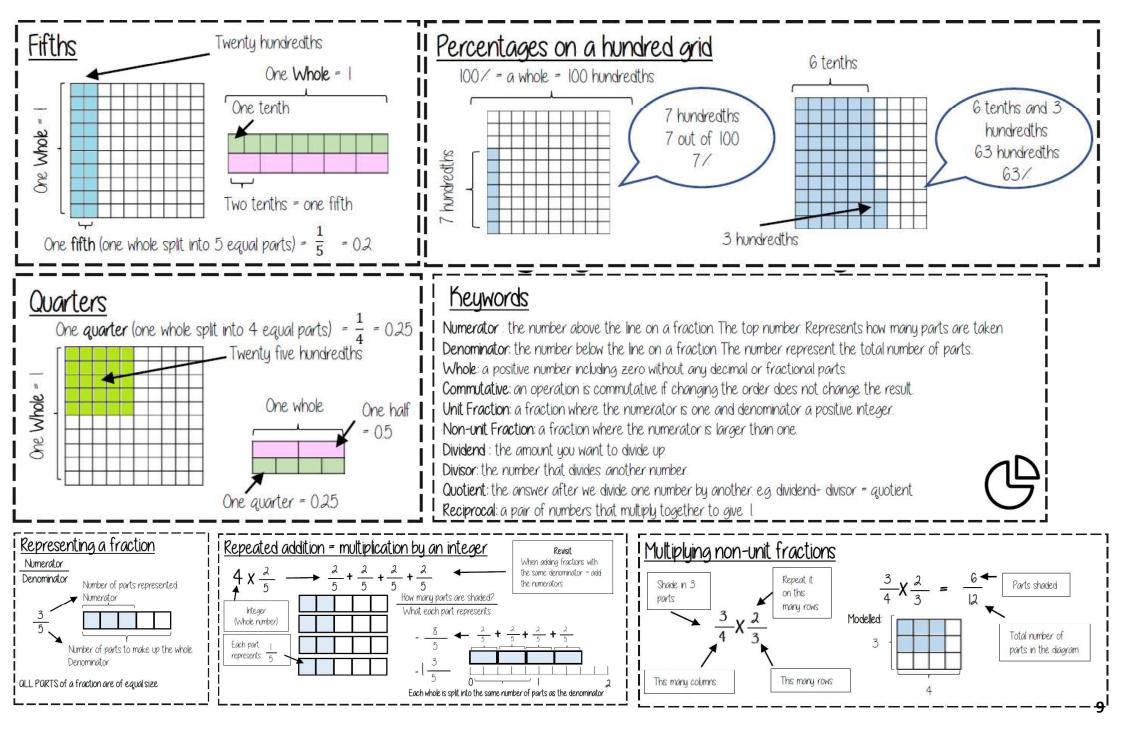




find out?

YEAR 7- MICHAELMAS TERM — MATHEMATICS - NUMBER







Hazard symbols

Scientists often work with chemicals that can cause harm. Clear symbols are used to label chemicals that might be dangerous, so that the appropriate care can be taken. There are two systems that might be used to do this. The older system, CHIP, uses black symbols on an orange background, shown below.



E: Explosive





flammable



F: Easily

T: Toxic

Xi: Irritant







T+: very toxic



C: Corrosive

O: Fuel

N: Dangerous

for the environment

The international system, (GHS, Globally Harmonised System), uses black symbols on a white background in a red rhombus. These are show below



Safety Equipment

Working with chemicals can pose a risk to health. To ensure that work is carried out as safely as possible, goggles and a lab coat should always be worn during practical work

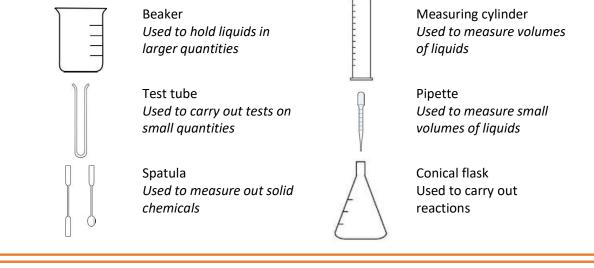
Laboratory equipment

Science as a subject is about studying the world around us. This means that there is a need for lots of specialist equipment to carry out experiments and gather results.

This equipment is often **sensitive** so that it can detect small changes. This means it must be handled with care to avoid damage.

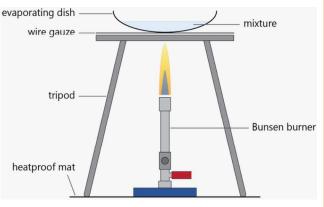
Containers that will be used to work with or store chemicals are often made of glass. This is because, even though glass can break easily if dropped, it is very **chemically stable** – it won't react easily with the chemicals being handled.

Some examples of laboratory equipment are given below.



Heating chemicals in the lab

When heating is required for an experiment, Bunsen burners are often used. These work by using natural gas to produce a flame that can apply controlled heat to the equipment being heated. Bunsens are always placed on a heatproof mat before use. When equipment is being heated, a **tripod** is often used to hold this in place over the flame: a gauze or pipeclay triangle will then support the glassware. The yellow safety flame should never be used to heat equipment, as it leaves sooty residue behind. The blue or nonluminous flame is hotter, and does not leave soot on the equipment.



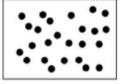
YEAR 7- MICHAELMAS TERM — SCIENCE — ATOMS AND ELEMENTS

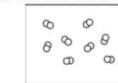


Key Word	Definition
Atom	The smallest unit of an element.
Element	Substances made out of one type of atom.
Compound	Substances made of two or more different types of atoms, chemically bonded.
Pure	A substance that contains only element or compound
Impure	A substance that contains a mixture of elements and compounds

Elements

- · Elements are substances made up of one type of atom.
- All 118 elements are found listed in the Periodic Table.
- The atoms in an element can either be single, or go around in pairs. It doesn't matter, as long as the atoms are **the same**.
- Elements that go around in pairs are called diatomic elements.

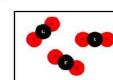




Pure Substances

A substance is pure if it only has **one type** of particle in it e.g. just helium atoms or just carbon dioxide molecules.





Impure Substances Impure materials are mixtures of different types of particle (covered more in Topic 7).



The first 20 elements and their Chemical symbols

Element	Symbol
Hydrogen	Н
Helium	Не
Lithium	Li
Beryllium	Ве
Boron	В
Carbon	
Nitrogen	Ν
Oxygen	0
Fluorine	F
Neon	Ne
Sodium	Na
Magnesium	Mg
Aluminium	Al
Silicon	Si
Phosphorus	Р
Sulfur	S
Chlorine	Cl
Argon	Ar
Potassium	К
Calcium	Са

Structure of the Atom

- An atom is made up of three subatomic particles: protons, electrons and neutrons.
- Protons are in the nucleus and have a positive charge.
- Neutrons are in the nucleus and have no charge.
- Electrons are in the shells and have a negative charge.
- Protons and neutrons are the same size, where electrons have hardly any mass.
- In an atom, there are equal numbers

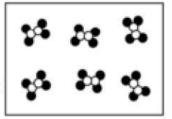
of protons and electrons because the positive and negative charges need to balance.

Compounds

- Compounds are substances made up of **different elements** which are chemically bonded.
- Compounds can be formed by chemically reacting elements together e.g.:

Magnesium + oxygen → magnesium oxide (Element) (Compound)

- Often, the compound formed has different properties to the elements that make it. E.g. magnesium is a shiny metal, oxygen is a colourless gas and magnesium oxide is a white powder
- In order to separate the elements in a compound you would need to carry out another chemical reaction.
- Compounds are still pure because, although they contain different atoms, those atoms are bonded to make one particle
- Examples of compounds are:
 - Carbon dioxide (CO₂)
 - Water (H₂0)
 - Anything else that has more than one element

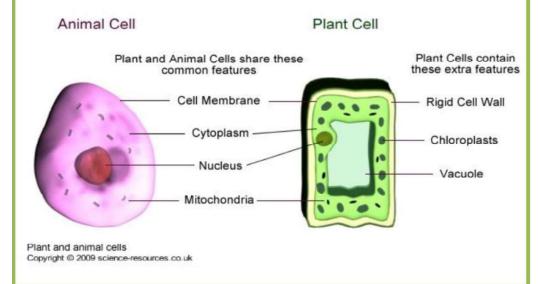


<u>YEAR 7- MICHAELMAS TERM — SCIENCE — CELLS</u>



Cells

Cells are the building blocks of all living organisms



Using a microscope

To view an object down the microscope we can use the following steps:

- 1. Plug in the microscope and turn on the power
- 2. Rotate the objectives and select the lowest power (shortest) one
- 3. Place the specimen to be viewed on the stage and clamp in place
- 4. Adjust the course focus until the specimen comes into view
- Adjust the fine focus until the specimen becomes clear
 To view the specimen in more detail repeat the process using a higher power objective

Key Terms	Function
Stage	Area where specimen is placed
Clamps	Hold the specimen still whilst it is being viewed
Light source	Illuminates the specimen
Objective <mark>l</mark> ens	Magnifies the image of the specimen
Eyep <mark>iece le</mark> ns	Magnifies the image of the specimen
Course/fine focus	Used to focus the specimen so it can be seen clearly
Revolving nosepiece	Holds 2 or more objective lenses

Parts of a microscope





Specialised Cells

Specialised cells are found in multicellular organisms. Each specialised cell has a particular function within the organism.

Type of	Cell	Function	Special Features
Red blood ce		To carry oxygen	 Large surface area for oxygen to pass through. Contains haemoglobin, which joins with oxygen. Contains no nucleus.
W. K	Nerve cell	To carry nerve impulses to different parts of the body	 Long. Connections at each end. Can carry electrical signals.
	Male reproductive cell (sperm cell)	To reach female cell (egg cell) and join with it	 Long tail for swimming. Head for getting into female cell.
	Root hair cell	To absorb water and minerals	Large surface area.
	Leaf cell	To absorb sunlight for photosynthesis	 Large surface area. Lots of chloroplasts.

Preparing a microscope slide

To prepare a slide to view onion cells we can use the following steps:

- L. cut open an onion
- 2. use forceps to peel a thin layer from the inside
- 3. spread out the layer on a microscope slide
- 4. add a drop of iodine solution to the layer
- 5. carefully place a cover slip over the layer

Magnification

We can use the following equation to calculate magnification of an object viewed through a microscope:

$$magnification = \frac{image\ size}{actual\ size}$$

Key Terms	Definition
Cell wall	Made of cellulose, which supports the cell
Cell membrane	Controls movement of substances into and out of the cell
Cytoplasm	Jelly-like substance, where chemical reactions happen
Nucleus	Contains genetic information and controls what happens inside the cell
Vacuole	Contains a liquid called cell sap, which keeps the cell firm
Mitochondria	Where most respiration reactions happen (glucose + oxygen → carbon dioxide + water)
Chloroplast	Where photosynthesis happens (carbon dioxide + water → glucose + oxygen)



Energy Stores

Energy is a quantity measured in joules (J). It is NOT a material or 'thing'. Examples of how energy is stored:

- Energy is stored in fuels as chemical potential energy
- Energy is stored in anything elastic when it is stretched, as elastic potential energy
- Energy is stored in any object that has been lifted up from the ground, because the object stores gravitational potential energy
- Energy is stored in moving objects as kinetic energy
- Energy is stored in any object as thermal energy, also known as heat energy. The higher its temperature, the more thermal energy it stores.

Energy Transfer

An energy transfer is when energy changes from one store to another. VERY IMPORTANTLY, the **total amount of energy does not change**. Energy cannot be created or destroyed. All that can be changed is how it is stored. This idea is called **the law of conservation of energy**.

Energy is transferred, so it changes store, in loads of situations. Examples to know:

- When a fuel is burned, the chemical potential energy in the fuel ends up stored as thermal energy in the surroundings;
- When an object falls off a shelf, the gravitational potential energy it stores is transferred (changed) to kinetic energy while it is falling.
- When the object hits the floor, all the gravitational potential energy it
 had to start with ends up stored as thermal energy in the surroundings.
- When a spring that's been stretched is released, the elastic potential energy it stored is transferred to kinetic energy then to thermal energy.

Key Terms	Definitions
Energy	Energy is a quantity that is stored in all objects. Anything storing energy can do work.
Work	Work is done when energy moves (is transferred) from store to another.
Potential Energy	Potential energy is energy stored in objects thanks to their position.
Chemical potential energy	Energy stored in fuels like wood or the gas for Bunsen burners is called chemical potential energy.
Elastic potential energy	Elastic objects like springs or rubber bands store elastic potential energy when they are stretched.
Gravitational potential energy	Any object that is not on the ground has gravitational potential energy. This is because they are lifted in a gravitational field and could fall down.
Kinetic energy	Any moving object stores kinetic energy. This includes the movement of particles.
Thermal energy	Also known as heat energy. All objects store some thermal energy, because their particles are moving.
Conservation of energy	The law that says energy cannot be created or destroyed, only moved between stores.
Energy transfer	A process where energy changes how it is stored.

Temperature and Thermal Energy

Temperature and thermal energy are linked, but are not the same thing.

- The thermal energy of a material depends on the **potential energy** of the particles AND the **kinetic energy** of the particles it is made from.
- Temperature <u>only</u> depends on the kinetic energy of the particle. The more the particles are moving, the higher the temperature.
- The **mass** of a material does NOT affect its temperature. However, the larger the mass, the more thermal energy it stores because it contains more particles.



Thermal energy transfer

Thermal energy will always be transferred from hotter objects/areas to cooler objects/areas. This includes hot objects transferring thermal energy to the surroundings (the air, nearby surfaces and so on). Thermal energy transfer continues until **thermal equilibrium** is reached (the temperature is equal).

You can reduce the amount of thermal energy transferred using insulation.

Thermal energy transfer by infra red radiation

All objects give out some infra red radiation, but the hotter they are the more radiation they give out. All objects can also absorb infra red radiation: when they do, they heat up. Radiation can travel through empty space – so this is how the Sun heats up the Earth.

The colour of the surface of an object affects how rapidly it emits and absorbs infra red radiation. Black, matt surfaces are the best absorbers and emitters. Shiny, silver surfaces are the worst absorbers and emitters.

Thermal energy transfer by conduction

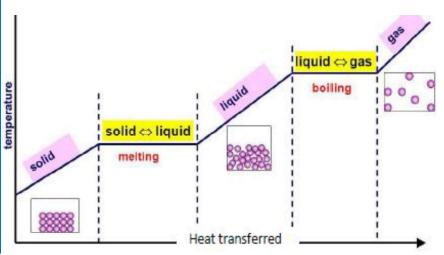
Thermal energy can be transferred between materials that are touching. Thermal energy is still transferred from the hotter object/area to the cooler object/area. This is called **conduction** of thermal energy. As the diagram shows, the particles in the area at a higher temperature vibrate more: their **kinetic energy** increases. They bump into neighbouring particles and pass on (transfer) thermal energy.

Energy when increasing temperature and when changing state

When heating a substance (solid, liquid or gas) and it doesn't change state, its temperature rises. This is because the particles move around more: their **kinetic energy** increases.

When heating a substance and causing it to change state, its temperature does NOT change during the state change. However, energy cannot disappear. The heat transferred to the substance increases the **potential energy** of the substance: it moves the particles it is made from apart until the substance has melted or boiled.

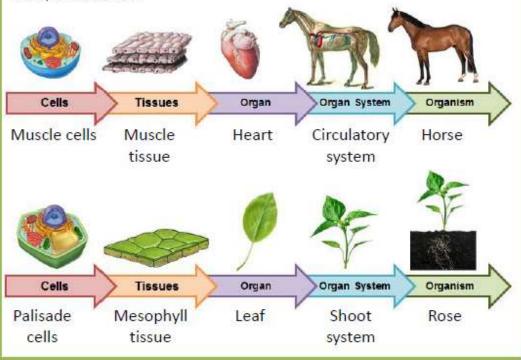
Key Terms	Definitions
temperature	The measure of the average amount of kinetic energy of all the particles in a substance.
temperature gradient	A difference in temperature between two places. Thermal energy always moves from hotter to colder places or materials.
thermal equilibrium	A situation where the temperature in two places is equal.
heat	The energy stored in substances thanks to the energy of their particles. Also called thermal energy.
conduction One way that thermal energy can be transferred. Objects that are touching can transfer thermal energy from the hotter object to the cooler one.	
radiation Another way that thermal energy can be transfer All objects give out infra red radiation. Hotter of give out (emit) infra red radiation that is absorbe cooler objects.	
emit	To give out
absorb	To take in





Hierarchical organisation

Cells are the building blocks of life. In multicellular organisms, cells rarely work alone.



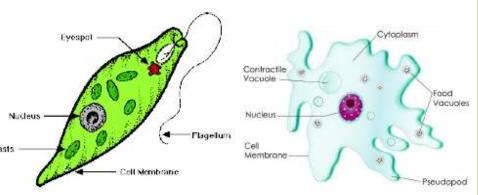
Key Terms	Definitions	
Cell	The building block of life and the smallest structural unit of an organism	
Tissue	A group of cells working together to perform a particular function	
Organ	A group of tissues working together to perform a particular function	
Organ system	A group of organs working together to perform a particular function	
Organism	An individual life form, can be multicellular or unicellular	
Multicellular	Consisting of many cells	
Unicellular Consisting of just one cell		
Diffusion The random movement of particles from a concentration to a lower concentration		

Unicellular Organisms

Unicellular organisms are made up of just one cell. There are no tissues, organs or organ systems. Unicellular organisms often have structural adaptations to help them survive.

Euglena are a unicellular organism. They have a flagellum (tail) to help them move and chloroplasts so they can make their own food.

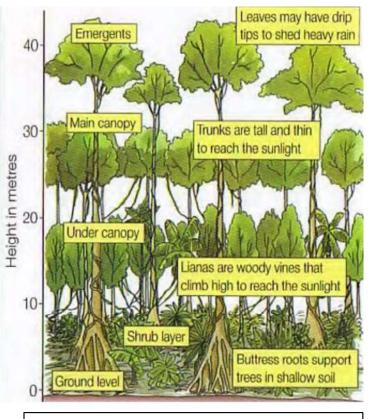
Amoeba are also unicellular organisms. They form pseudopods (false chieroplasts feet) that let them move about and can surround food so that the cell can take it in.



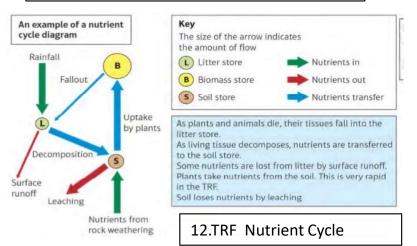
<u>YEAR 7- MICHAELMAS TERM — GEOGRAPHY —BRAZIL</u>



1	Tropical Rainforest	A tropical rainforest biome is found in hot, humid environments in equatorial climates. They contain the most diverse range and highest volume of plant and animal life found anywhere on earth	
2	Biome	A large scale ecosystem like a Tropic Rainforest	
3	Ecosystem	A localized biome made up of living and non living environment	
4	Food web	A complex network of overlapping food chains that connect plants and animals in biomes.	
5	Biotic	Living part of the biome made of flora (plants) and fauna (animals)	
6	Abiotic	The non-living part of a biome includes the atmosphere, water, rock and soil.	
7	Services	Often invisible processes that enable the biosphere to function i.e. atmospheric regulation and water purification.	
8	Goods	Physical material that are of value to us such as crops, timber, oil, coal and gas.	
9	Indigenous	Original populations; the oldest communities in the world.	
10	Greenhous e effect	Gases like carbon dioxide and methane that trap heat around the Earth, leading to global warming,	



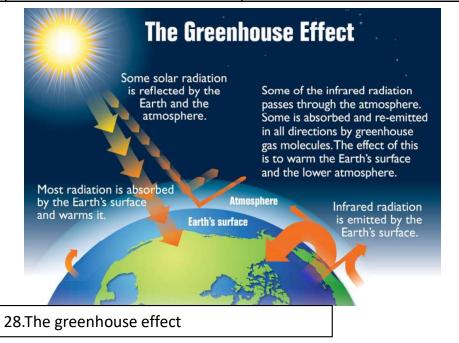




<u>YEAR 7- MICHAELMAS TERM — GEOGRAPHY —BRAZIL</u>

	Brazil	UK Facts for comparison	
13	Continent	South America	Europe
14	Level of affluence	Emerging Country	Developed
15	GDP per capita	\$8902 US	\$39 720 US
16	Population	209.3 million	66.4 million
17	Percentage living in urban areas	79.5%	82%
18	Fertility Rate	2.18	1.8
19	Infant mortality rate	16 per 1000 live births	3.8 per 1000 live births.
20	Average age	31.3 years	40
21	Percentage working in the tertiary sector	70%	79%

	Amazon Rainforest Key Facts		
No,	Size	Biggest rainforest in the world. 5.5 kn²	
22	Biodiversity	Most biodiversity land based biome. Contains 10% of all the world's species.	
23	Number of mammals	427	
24	Number of insects	2.5 million	
25	Number of birds	1500	
26	Number of plant species	40 000	
27	Level of deforestation	8000m² per year	





Key words and terms:

Crust: The rocky outer layer of the earth, made up of oceanic and continental crust.

Mantle:

Semi-molten rock, moving beneath the earth's crust. It is the movement (convection currents) in the mantle which cause tectonic plates to move

Outer core:

A 2000km thick liquid made up largely of iron and nickel.

Inner Core:

A dense solid of extreme temperature (5,500°C) made up of iron and nickel.

Tectonic plates:

Huge plates (oceanic and continental) that make up the earth's crust, and which move because of convection currents.

Convection currents:

Currents in the mantle which cause the tectonic plates to move, caused by extreme heat from the earth's core.

Dense:

When something is closely packed together.

Molten: Something which is melted and has become a liquid.

To know the structure of the earth and to know why its unstable

The earth's structure:

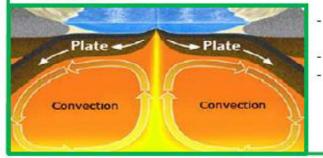
The Earth has four main layers : the inner core, the outer core, the mantle and the crust.

The mantle is semi-molten and about 3,000 km thick. The closer the mantle is to the core, the more liquid it is.

The crust is the rocky outer layer. It is thin compared to the other sections, approximately 5 to 70 km thick. If the Earth was scaled down to the size of an apple, the crust would be about the thickness of the apple skin.

The earth's crust:

- The earth's crust is broken up into plates, called tectonic plates.
- There are two types of tectonic plate oceanic and continental.
- Oceanic plates carry the oceans. They are thinner but more dense than continental plates.
- Continental plates carry the land. They are thicker but less dense than oceanic plates.



- Heat from the core causes convection currents in the mantle. These
 cause the mantle to move as it heats and cools.
- These currents slowly move the crust around.
- In some places the crust is destroyed. In other places new crust is formed.

Oceanic crust Mantle

The inner core is extremely hot

solid made from iron and nickel.

The outer core is

2,000 km thick and is

(5,500°C). It is a very dense

a liquid.



Key words and terms: Plate boundaries:

Where two or more tectonic plates meet.

Conservative:

A plate boundary where two plates slide past one another.

Constructive:

Izabla

African

Australian

A plate boundary where two plates are moving apart.

Destructive:

A plate boundary where two plates are colliding.

Magma:

Molten rock from the mantle before it reaches the surface of the earth.

Lava:

Molten rock released from the earth's core by a volcano.

Fold Mountains:

Mountains formed at collision zones, where two continental plates move towards each other.

Volcano:

A vent in the earth's crust from which lava, ash and gas is released.

Earthquake:

A sudden shaking of the ground, caused by movement in the earth's crust.

To describe conservative, constructive and	destructive plate boundaries.
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Plate boundaries:

- The Earth's crust is broken into different plates, which sit on the Earth's mantle.
- These plates move because of convection currents.
- The plates move in different directions and meet at plate boundaries.
- As the plates move, parts of the crust are destroyed and in other areas new crust is created.

Different types of plate boundary:

There are three different types of plate boundary: destructive, constructive and conservative. Which type they
are depends on how the plates move at this boundary.

uracia

plate.

Counts plate

actic

Nazca plate

Antarche

outh American

otia plat

Different plates boundaries have different landforms, such as volcanoes and fold mountains.

Boundary	Movement	Diagram	Example	Landforms
Destructive	The plates either collide or the oceanic plate subducts under the continential plate.		The Nazca plate being forced under the South American plate.	Volcanoes Fold mountains Earthquakes
Constructive	The plates move apart.		The African plate and the South American plate.	Volcanoes
Conservative	The plates move alongside each other.	₽1	The Pacific plate and the North American plate.	Earthquakes



To describe	conservative, constructive and destructive plate	e boundaries.	Key words and terms: Magma chamber: A large underground pool of magma.
 Most vol Volcanoe If a volca 	es are a vent in the earth's crust from which lava lcanoes form at destructive and constructive pla es do not form at conservative boudaries . ano forms at a plate boundary, they are either co two types, volcanoes can be active , dormant o	ate boundaries. omposite or shield volcanoes.	Lava: Magma, once it reaches the surface. Crater: A bowl-shaped basin in the top of the volcano.
	and shield volcanoes: number of key differences between composite	and shield volcances	Vent:
mere are a	Composite	Shield	The central tube which magma travels through.
Diagram	Lond. Am	Live wide core	Cone: A hill produced around a volcano by the eruption of lava and ash. Pyroclastic flow: A mass of hot ash, gases and lava fragments which is ejected from a volcano at great speeds.
Shape	Steep sides.	Gentle sides.	
Plate boundary	Form at destructive plate boundaries.	Form at constructive plate boundaries.	Active: Volcanoes which erupt frequently.
Lava	Thick lava.	Thin, runny lava.	Dormant: Volcanoes which have not recently
Eruptions	Eruptions happen less often but are usually violent. The eruption consists of ash, pyroclastic flow and lava.	Eruptions happen often but they are usually quite gentle. The eruption is mainly lava, with little pyroclastic flow.	erupted by which can still erupt.
Example	Mount Vesuvius in Naples, Italy. Mount St. Helens, USA	Mauna Loa in Hawaii. La Cumbre, The Galapagos Islands	A volcano which is unlikely to ever erupt again.

<u>YEAR 7- MICHAELMAS TERM — HISTORY — PRE 1066 AND NORMAN INVASION</u>



Key T	erms		
1	Medieval	The period between 1066-1500	
2	Doggerland	The land bridge connecting Britain to Europe before the last Ice Age	
3	Chronology	Putting events in the order that they happened	
4	Century	100 years	
5	Source	Something from the time which we can use to find out about the past.	
6	Celts	The dominant population of Britain before the arrival of the Romans and Anglo-Saxons	
7	Romans	Group who ruled England after invading from 40AD. They left around 410AD due to invasions in their homeland.	
8	Ivory Bangle Lady	The skeleton of a Roman woman found in York, north England. Nicknamed after the jewelry found in her coffin. Proven to have come from North Africa.	
9	Anglo-Saxons	People who lived in Britain from the 5th century. They included people from Germanic tribes who migrated to the island from Europe.	
10	Vikings	Originally from Scandinavia, a vicious warriors group who invaded and settled from around 800AD	
11	Shires	The individual counties that the Anglo-Saxons divided England into	
12	Earl	Noble title used by the Anglo-Saxons use to describe the ruler of a county	
13	Heir	a person who is legally allowed to take the rank and property of someone who has died.	
14	Witan	Kings Council, made up of powerful Bishops and Earls, helped the king run the country	
15	Normans	People from the Normandy region of France, led by King William	
16	Bayeux Tapestry	An embroidery telling the story of the Norman Conquest	
17	Conquest	Taking an area by using force	
18	Fyrd	Local farmers that fight for Harold Godwinson's army	
19	Housecarls	Paid, experienced soldiers that fought for Harold's army	
20	Cavalry	William's soldiers that fought on horses	
21	Harrying	To completely destroy	
22	Роре	Head of the Catholic Church	
23	Villein	A type of peasant.	
24	Peasant	Poor people. Farmers. They worked for the knights and nobles.	

	Key people
1	 Edward the Confessor: 1042-1066 -Edward became king of England in 1042 after his half-brother died. Before this he had been living in Normandy. Edward married but had no children. It was not clear who Edward wanted to be king after him. For a king to die without an heir was a disaster! He was made a saint and 'the confessor' means someone that is saint-like but not a martyr.
2	Harald Hardrada -Viking King of Norway -Vikings had ruled Britain before. -Most feared warrior in Europe –Hardrada means 'hard ruler' and his nickname was 'the Ruthless'. -Harald was supported by Tostig, Harold Godwinson's brother who wanted revenge.
3	Harold Godwinson -Anglo-Saxon. Earl of Wessex, one of the most powerful men in England -Harold's sister was married to King Edward. Harold was a brave and respected solder with a tough streak. -The Witan, wanted Harold to be the next king.
4	<u>William of Normandy</u> -Duke of Normandy, France. -William came from a fighting family. He was a brave solider. -Edward's cousin. Edward had lived in Normandy from 1016-1042. Edward had supposedly promised that William should become King of England

Кеу	Key events		
1	Battle of Stamford Bridge	-The battle where the Anglo-Saxons defeat the Vikings in September 1066. -It took the Anglo-Saxon army 4 days to march to meet the Vikings, once they had invaded northeast England -Harold Godwinson was betrayed by his brother Tostig by joining the Vikings	
2	Battle of Hastings	 The battle took place in October, 1066 The winds suddenly changed at the end of September, allowing William's Norman army to invade William's heavily armoured soldiers on horseback, Knights, were used throughout the battles. Harold's army positioned themselves at the start of the battle on top of Senlac Hill The Normans carried out a Fake Retreat to tempt the Saxons away from their high ground? According to the Bayeux Tapestry, Harold Godwinson died by being shot with an arrow to the eye According to the first account, Harold Godwinson died by being disembowelled by Norman knights 	

<u>YEAR 7- MICHAELMAS TERM — HISTORY - — NORMAN ENGLAND</u>



Key Te	erms			ey changes
1	Feudal system	The social structure of Medieval England (see right)	1	The Feudal System FEUDAL SYSTEM -William also sets up the Feudal System. This FEUDAL SYSTEM
2	Villein	Peasant at the bottom of the Feudal system		and promises of loyalty, in return for Grants
3	Baron	Noble land owner that pledged their loyalty to the King		-It is based on a system of the surface as he
4	Normans	People from the Normandy region of France, led by King William		holds all the land and money, which he gives to the Barons.
5	Motte and Bailey	The first type of castle made by William. It was made out of wood and had a higher Motte part and a lower Bailey part		-They promise William their money, soldiers and loyalty. They give the land to the Knights in return for loyalty and military service. -Finally the knights give the land to the
6	Stone Keep castle	Similar to Motte and Bailey but made of stronger materials such as stone		peasants. The peasants farm the land and give food, money and services to the knights.
			2	
7	Moat	The water around a castle (different to a motte which is the hill of earth that a keep is put on!)		-Took place in 1069, following an Anglo-Saxon rebellion in Durham. After taking the throne in 1066, William did not trust the English lords, who do not like him. He had to force the English to accept him as King and many of the English are rebelling and fighting against him.
8	Taxes	Money collected from people by the King		-To stop rebellions and show his power, William crushes the rebellions and took the land away from the English lords and gave it to his supporters instead. William now has his supporters helping him to control the whole country.
9	Роре	Head of the Catholic Church	3	
10	Hierarchy	A ranking system based on either power or strength		In 1086, William sent out surveyors to every part of England, with orders to list: -How much land was there -Who had owned it in 1066 and who owned it now -What was the place like, and who lived there
11	Loyalty	The act of supporting someone		-How much it was worth in 1066 and how much now William did this to allow him to effectively tax the land and earn money. William also needed
12	Harrying	To completely destroy		to have an idea of what could be seized from landowners who did not show him loyalty. All of this was recorded in the Domesday Book.
13	Domesday book	An important book made by William the Conqueror in 1086 that counted all the money he owned in England	4	Castles William also kept control by building castles. Motte and Bailey – The first castles built
14	Vassal	anyone below you in the feudal system		to help fight against rebellions. They were built quickly and made out of wood,
15	Peasant	usually a farm labourer, was at the bottom of medieval society		meaning that they were not very strong, and could be easily destroyed.
16	Westminster Abbey	Where William the Conqueror was crowned king of England.		Stone Keep – This castle was now made out of stone and had towers as a form of defence. The main part of the castle was the Keep.

YEAR 7- MICHAELMAS TERM — RELIGIOUS EDUCATION — CHRSTIANITY — OLD TESTAMENT



Key Word	Meaning	Key Word	Meaning							
Religion	The belief in and worship of a superhuman controlling power, especially a personal God or gods.	Anointed	The application of oil in a religious ceremony, usually performed by a religious leader on a person being blessed		BOX 1 – <u>What is reli</u> Religion is the experi Education is about fir	ence and expression of nding out about other	of faith. Religious r people's beliefs.			
Symbol	A thing that represents or stands for something else, especially a material object representing something abstract	Yaweh	Hebrew name for God		Religious Education is about the world and	how we act.				
Fact	A fact is verifiable This means that we can determine whether something is true by researching the evidence. This may involve numbers, dates or testimonies.	Nature worship	A religious, spiritual and devotional practices that focus on the worship of the nature spirits.		symbols, events a	tand the meaning of	religious stories,			
Opinion	An opinion is a judgment based on facts, an honest attempt to draw a reasonable conclusion from factual evidence. An opinion can change depending on how the evidence is interpreted.	Baal	A god worshipped in many ancient Middle Eastern communities, especially among Canaanites.		communities andIt helps us unders religionIt helps us reflect	cultures tand the political and on issues of justice ar	social impact of nd truth			
Belief	A belief is a conviction based on cultural or personal faith, morality or values. Belief is thinking that something is true without having actual proof or evidence.	Pagan	A person holding religious beliefs other than those of the main world religions		 It provokes questions about the meaning of life It offers opportunities for personal reflection It helps us tackle extremism and religious discrimination 					
Faith	Faith is a strong belief in the principles of a religion, based on spiritual conviction rather than scientific proof.	Pilgrimage	Religious journey		It gives you the time to reflect on your own faith and grow	90% of the people in the world are still religious, and RE can	R.E can help us answer "BIG" questions about the			
Monotheistic Denomination	A religion which believes in one God A branch of the Christian Church	Successor Theological	A person following (succeeding) another Relating to the study of the	$\left \right $	and develop your own beliefs and	help us understand what's important to	world			
Prophet	A person who speaks in the name of God.	Divinity	nature of God and religious belief The state or quality of being	┥┝	values R.E can teach me	them The U.K has become a	R.E can help us			
Sin	Any action against God	Transcendent	divine (like God) Beyond or above normal or physical human experience		about self-REspect and REspecting others	multicultural society, and R.E helps us understand other	understand what it means to be 'British' in the 21st century			
Original sin	First sin in the world committed by Adam and Eve which means all humans are born with this in them.	Transfiguration	A complete change of form or appearance into a more beautiful or spiritual state		others	cultures				
Patriarchs	Biblical figures regarded as fathers of the human race	Repent	feel or express sincere regret or remorse about one's wrongdoing or sin.		R.E is both an academic and 'hands on' subject, with a	R.E gives me the opportunity to share my opinions in a	R.E can help me understand global issues, and become			
Gentile Covenant	Not Jewish An agreement between two parties	Omnipotent Missionary	All powerful A person sent on a religious mission, especially one sent to promote Christianity in a foreign country		worthwhile qualification at the end	meaningful way	more involved as a global citizen			



<u>The Bible</u>

- The Christian holy book is the <u>Bible</u> and this is the most important <u>source of authority</u> for Christians, as it contains the teachings of God and <u>Jesus Christ</u>.
- All Christians, regardless of <u>denomination</u>, regard the Bible as the starting point for guidance about their faith. For Catholics it contains 73 books and is split into the **Old Testament** and the **New** Testament.

The Old Testament also contains examples of:

- other people that Christians can learn from, eg Job
- prayers and songs that are used in worship eg psalms (<u>Song of</u> <u>Solomon</u> is a type of love poetry and part of the Wisdom tradition)
- passages that are regarded as <u>prophecies</u> of the Messiah, such as Isaiah chapter 53

BOX 3 - The Old Testament (OT)

The Old Testament is a collection of books written before the life of Jesus. It contains the rules which Christians should live by. It is believed by most Christians and religious Jews to be the sacred **Word of God**.

Importance to Christians

- It reveals God, that there is a Creator and that God is in control of everything
- It reveals the character of God, what God is like
- Christians learn that God is a God of love
- The Ten Commandments show Christians how to live God's way. This helps Christians understand how to act according to God's will.
- It reveals that humanity is created in God's image to be like him
- Christians learn that sin brings suffering but also that God is forgiving if we repent and ask for forgiveness
- Christians learn about God's plan, about the coming savior, Jesus, which gives Christians hope.

BOX 2 – Source of authority

Most people have *sources of authority* they go to for **help** or **guidance** when making a decisions about what to do. The **Christian Bible** is a source of authority for Christians where Christians seek guidance and help.

Sources of authority - The Bible

Christianity is a **monotheistic** religion and for all Christians, the basis of all authority is God. Christian leaders seek guidance from the Bible and their understanding of Biblical teachings which derive from the **word of God**. The Bible is the **most important** source of authority for Christians since it contains the teachings of God and Jesus Christ.

BOX 4 - Why is the Old Testament important to the writers of the New Testament?

The Old Testament is important to the writers of the New Testament because:

- The New Testament is built on **the foundation of the Old Testament**, they form one complete story, the story of God's deep love for mankind and his plan for humanity.
- Jesus saw his own passion, death and resurrection predicted in the Old Testament, he said "everything that is written by the Prophets about the Son of man is to come true." (Luke 18:31-32)
- To understand Jesus who was a Jew, we also need to understand his Jewish past.
- The Old Testament was **Jesus' Bible**, the New Testament had not yet been written. Jesus found fuel for his mission, ministry and prayer.
- Jesus prayer book was the book of the Psalms. Knowing that the Old Testament was the source for much of Jesus' prayer leads Christian to want to discover the riches of those Scriptures which nourished Jesus spiritually.



BOX 5 - Creation according to Genesis 1.1-2.3: In the beginning - God started creation Day 1 - light was created Day 2 - the sky was created Day 3 - dry land, seas, plants and trees were created Day 4 - the Sun, Moon and stars were created	 BOX 6 - Different Christian beliefs about Creation Literalist believe that the Genesis story is literally true, that the world was created in 6 24 hour days exactly as it is told in the Bile. Non-literalists don't understand the Creation literally. They believe it was six periods of time – not six 24 hour periods of time. Non-literalists can believe in the Big Bang and Evolution and that God made this happen. 				
Day 5 - creatures that live in the sea and creatures that fly were created Day 6 - animals that live on the land and finally	BOX 7 - <u>Genesis 2</u> - how God created man, Adam from dust and Eve from Adam's rib. This is an important part of Genesis; this is why Christians recognise man and wife, through Adam and Eve's union: "they shall be one flesh".				
humans, made in the image of God were created Day 7 - God finished his work of creation and rested, making the seventh day a special holy day	<u>Genesis 3 - The Fall</u> The fall describes how the first man and woman change from innocent obedience to God to a state of guilty disobedience. They were tempted by the Devil to eat the forbidden fruit. This links to the original sin , the fall brought sin into the world so all humans are born into original sin, a state from which they cannot attain eternal life without the grace of God.				

BOX 8 – Important people in the Old Testament

Noah: The survivor of God's great flood. Noah is important because he built the large ark that saved the human race and the animal kingdom from destruction. Noah is important because he is the forerunner to Abraham, because Noah represents the first instance of God's attempt to form a covenant with humanity through one person.

Abraham - The patriarch of the Hebrew people, traditionally called "Father Abraham" because the Israelite people and their religion descend from him. God established his covenant with Abraham, and God develops an ongoing relationship with the Israelites through Abraham's descendants. Abraham is important because he practiced the monotheistic worship of God, and his resilient faith in God set the pattern for the Israelite religion's view of righteousness.

Moses – Moses is important because he is the saviour of Israel in its migration from Egyptian to the promised land. Moses mediates between God and the people, transforming the Israelites from an oppressed ethnic group into a nation founded on religious laws. Moses is the only man ever to know God "face to face."

David - The king of Israel and the founder of Jerusalem. David's reign marks the high point of Israel in the Bible. Although David's claim to the throne is threatened by Saul and by David's own son, Absalom, David maintains his power by blending smart political maneuvering with a generous and forgiving treatment of his enemies. David brought the Ark of the Covenant—Israel's symbol of God—to the capital of Jerusalem.

Elijah – A prophet who opposed the worship of the god Baal in Israel. After the division of Israel into two kingdoms, Elijah and his successor Elisha represent the last great spiritual heroes before Israel's exile.

Jonah - a prophet of the northern kingdom of Israel in about the 8th century BCE. Jonah was an Israelite whom God had called to be a prophet but who refused to accept his divine mission to encourage people of Nineveh to repent their sins. The story teaches Christians about ability to repent and be forgiven by God.

Isaiah - a Hebrew prophet born in Jerusalem, Israel who prophesised the coming of the Messiah Jesus Christ.

YEAR 7- MICHAELMAS TERM - RELIGIOUS EDUCATION - CHRSTIANITY - NEW TESTAMENT

BOX 1 - Christian Beliefs about God.

1. Christians base their beliefs about God on the Bible, the official teachings of the Church, the views of Christian leaders and their personal experience.

2. Christianity is a **monotheistic** religion which is a belief that there is only one God.

3. Christianity teaches that God is **transcendent** which means that God is above and beyond anything else that exists on Earth.

4. God is seen as a supreme being who has supernatural powers that defy the physical laws of the universe; he is therefor considered **divine**.

5. God is referred to as **holy** and **sacred** which means he is extremely special and set apart from human beings and worthy of upmost respect.

6. Christians believe God has no gender as male and female are human and not divine.

BOX 2 PART 1 - The Trinity (1)

One of the ways Christians explain the different characteristics and qualities of God is through a teaching known as the **Doctrine of Trinity**. It is unique and fundamental to Christian belief.
 Christians believe that God has appeared in the world in three ways; the Father, Son and Holy Spirit.
 Christians do NOT believe there are three Gods but believe that all three are equal but distinct persons within the **Oneness of one God** which is called the Trinity.

BOX 2 PART 2 :

The Son:

• God the Son was sent to Earth in human form to save humans. His death on the cross was a sacrifice for the sins of humanity which allows them to be reunited with God. Jesus Christ is the <u>incarnation</u> of God on Earth: "*The Word became flesh and made his dwelling among us*"

The Holy Spirit

- Some of the evidence which suggests Jesus was a <u>divine</u> figure comes from the many passages in the Bible where the **Holy Spirit** is connected to Jesus in some way. Christians believe that:
- Jesus was conceived by the Holy Spirit
- the dove at the baptism of Jesus was the Holy Spirit
- Jesus was able to heal through the power of the Holy Spirit



EARNING - LOVING - LIVING

BOX 3 - The Trinity (2)

10. Christians believe that each part of the Trinity performs a special function.

- God as the Father created Heaven and Earth.
- God as the Son, Jesus is the saviour of the World. He is believed to be the Messiah promised in Jewish scripture.
- God as the Holy Spirit is an invisible spiritual power, which guides, helps and inspires human beings.

BOX 4 – The Nicene Creed

12. Christian belief in the Trinity is set out in a statement or profession of faith called the **Nicene Creed**. The word Creed comes from the Latin credo, which means "I believe".

13. Christian leaders thought it was important that everyone knew and agreed on the same basic beliefs on which Christianity is founded so during the 4th Century that produced the **Nicene Creed** stated this basic beliefs. In some churches the creed is still recited during services. Another way it is recited is through prayer.

BOX 5 - Sources of Authority.

We believe in God, The Father, the Almighty, Maker if heaven and earth..... We believe in one Lord, Jesus Christ, The only Son of God...... We believe in the Holy Spirit, The Lord, the giver of life..... Who with the Father and the Son is worshipped and Glorified. (Nicene Creed)



BASIC RULES	TEACHING POINTS FOR PASSING						
1. How do you start a football match? The football game is started by a kick off in the centre of the pitch.	8. What are the teaching points for the SHORT PASS?Non kicking foot next to the ball						
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.	 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 						
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.	 9. What are the teaching points for the LONG PASS? Non kicking foot next to the ball use the front (laces) of the kicking foot to contact the ball following a bigger back swing (flexion of the knee) 						
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.	 keep head over the ball to improve accuracy of the pass lean back slightly to help generate height if required on the pass follow foot/leg through to generate more power. 						
KEY TERMINOLOGY	10. What are the teaching points for a HEADER?• Keep eyes focused on the ball when preparing to header						
4. What is meant by the term <u>offside</u>? 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.	 use the forehead to contact the ball move feet to ensure body is slightly behind the ball before heading use neck to generate more power on the header defensive headers are normally headed high with increased distance 						
5. What is meant by the term <u>free-kick</u>? The referee stops the game and place the ball where a foul or infringement occurred, either direct, from which a goal may be scored, or indirect, from which the ball must be touched by at least one other player for a goal to be allowed	 whereas attacking headers on goal are normally headed down to make it more difficult for the goal keeper to save Perform a jump before the header to increase power and give yourself more chance of beating the opponent to the header. 						
6. What is meant by the term <u>marking</u>? 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.	FULL FOOTBALL POSITIONS 1. Goalkeeper 2. Wing-Back 3. Full-back 4. Sweeper						
7. What is meant by the term <u>VAR?</u> 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.	 5. Centre-back 6. Defensive midfielder 7. Winger 8. Central Midfielder 9. Striker 10. Attacking Midfielder 11. Forward Central Midfielder Central Midfielder Midfielder Wing-Back Wing-Back Wing-Back 						

<u>YEAR 7- MICHAELMAS TERM — PHYSICAL EDUCATION — RUGBY</u>



What is the aim of a rugby game? - The aim of the game is very simple.

- Use the ball to score more points than • the other team.
- You can run with the ball, kick it and • pass it, but passing forwards is not allowed.
- Rugby is a contact sport, so you can ٠ tackle an opponent in order to get the ball, as long as you stay within the rules.

Can you tackle in rugby?

- Tackling is the only way of legally • bringing down your opponent in rugby union.
- There are certain laws on how to ٠ tackle and if these are not adhered to. penalties will follow.

What is a maul in rugby?

The maul is about physical strength and power.

The maul is when at least three players from either side are in contact together, challenging the player with the ball, moving towards a goal line. But what makes the maul different to the ruck is the ball is not on the ground but in hand.

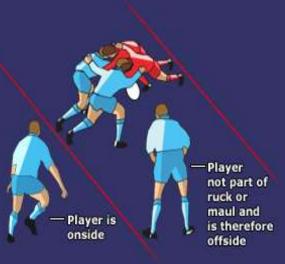
What is the job of the wing?

Like in football or netball the wing Plays out wide on the side of the pitch, the winger is a team's finisher in attack. A winger is also often the last line of defence when they don't have the ball and as such, pace is their major resource.

How can you score points? - There are several ways to score points.

- A try five points are awarded for • touching the ball down in your opponent's goal area.
- A conversion two points are added • for a successful kick through the goalposts after a try





. How long does a rugby match take? - A game of rugby has two periods of 40 minutes each.

The game is started by a place kick or a drop kick • from the middle of the halfway line.

Target shoulder (shoulder tackle) at the mid-torso of Head up, forward and facing the the ball-carrier

Counteract the ball-carrier fend

(for example, push the ball-carrier

ball-carrier

Leg drive through contact and use arms to wrap or pull ball-carrier towards you



Hendricks et al. 2014 European Journal of Sport Science

What is the role of a flanker in rugby?

Each team of 15 players includes two **flankers**, who play in the forwards, and are generally classified as either blindside or open side **flankers**, numbers 6 and 7 respectively. The name comes from their position in a scrum in which they 'flank' each set of forwards.

How do you dropkick a Rugby ball?

Hold the ball in two hands, pointing downwards. As you step forward with your non-kicking foot, strike the ball on the bounce.

YEAR 7- MICHAELMAS TERM — PHYSICAL EDUCATION — TRAMPOLINE



Straddle jump: **Keep upper body and head as still as possible **Point your toes.	As you take off, legs apart and extend to your sides at 90 degrees and horizontal. Your arms follow your legs, straight. Upper body and head stay as still as possible. Toes pointed and eyes forward.	 How to be safe and successful: Stay on the cross (center of trampoline), Keep body tension, Gain maximum height 	Routine 1: Full twist Tuck jump Swivel hips to feet Pike jump	
Tuck jump: **Keep upper body and head as still as possible **Point your toes.	As you take off, bring your arms away from your sides and extend in front of you to elevate quickly. As you reach max height bring your knees in tight to your chest. Bring arms down to touch shins.	 in the air – this makes it easier to perform the skills, Point toes when jumping, Keep head and eyes forward focusing on a point in front of you. 	Straddle jump Half twist Routine 2: Tuck jump Straddle jump	
Pike jump: **Keep upper body and head as still as possible **Point your toes.	As you take off, keep your legs together and straight and extend in front of you. Knees should be straight with both knees and feet together. Straighten arms out forward towards knees.		Seatdrop to feet Half twist Seat drop to feet Pike jump Full twist	
Seat drop: **Keep upper body and head as still as possible **Point your toes.	As you take off, bring your arms away form your sides and extend them out in front of you and elevate them quickly above your head. Tilt your pelvis up slightly and legs straight. As you begin to loose height, bring your arms down to make contact with the bed just behind your bottom and extend feet forward.		Routine 3: Half twist Straddle jump Swivel hips to feet Tuck jump	
Swivel hips: **Keep upper body and head as still as possible **Point your toes.	Seat drop as above – except you do a half twist in the air and complete another seat drop before returning to feet.		Seatdrop to feet Pike jump Full twist	
Front drop: **Keep upper body and head as still as possible **Keep your eyes focused towards wall in front – do not look down.	As you take off, bring your arms away from your sides and tem in front of you and elevate arms quickly above head. Hold this position and push hips back as you gain height. As you begin to loose height bend arms down to form a diamond shape with hands overlapping in front of face. Legs slightly bent at knees. Bounce back up.		Straddle jump Swivel hips to feet Pike jump Front drop to feet Full twist Tuck jump Straddle jump	



Split

Straddle

Tuck

Pike

Split

Straddle

Pike

Tuck

Split

Straddle

Pike

Tuck

Split



Drama at Trinity

LEARNING — LOVING — LIVING

Characterisation

The act of changing voice, body language, movement, gesture etc. when in role is called characterisation. All people are different. The actor must use their skills to portray a character consistently throughout their performance. When creating characters, you need to consider voice, body language, facial expression and gesture.

Characterisation: Voice

Does your character have an accent? What is the tone of their voice like? How quickly do they speak? Do they have any vocal mannerisms that are particular to them?

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

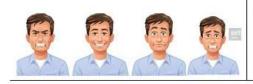
where you are from



Characterisation: Facial Expression

Does your character move their face a lot? What does their facial expression say about their character? Do they have a very expressive face or do they try not to give much of themselves away?

Performing in a large theatre auditorium might mean that many of the audience are a long way away. It's the actors' job to communicate their role to fit the space effectively. Facial expressions, like body language, may be heightened or exaggerated so that the character's intentions are clear for all.



Characterisation: Body Language This is what your character's movements and way of

using their body says about them. A character who is very nervous and stressed may fidget a lot or have their shoulders hunched up tight to indicate tension.

Key Words

Movement: e.g. rushing in or stamping their foot excitedly. Stance: How the character stands. Gait: The way the character walks. Posture: How the character stands or sits e.g. slouch or straight. Proxemics: The space between the characters creates meaning, e.g. distance may mean enemies and contact may mean intimacy Levels: Suggest status e.g. a dominant character may be higher up Use of space: The character can demand a lot of space or hide in a small corner.

Characterisation: Gesture

A gesture is a movement expresses meaning. For example, the wagging admonitory finger accompanying words like 'I have told you time and time again that this behaviour is unacceptable' is probably among the most familiar of all gestures. They tend to work as emphasis.

However, gestures can also amplify a question, such as pointing in a particular direction as you say 'Do you mean this way?' They can also convey a mood, such as a shrug of the shoulders to convey indifference.



Rehearsal Techniques

These are exercises that the actors engage in BEFORE they perform live to an audience. They help the actors to understand their characters and realise their intentions. They also help to develop the plot and structure of a devised play.

Understand your character

The rehearsal techniques below help the actor to deepen their understanding of the character they are playing and become more familiar with their intentions.

- Hot-Seating An actor sits in the hot-seat and is guestioned in role. They spontaneously answer questions.
- Role on the Wall Draw an outline of your character. Annotate it to reflect the character's thoughts, feelings, fears, circumstances etc.
- 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 Grandad in a basket and leave him by the side of the road"? Actors on each side of the corridor give reasons for and against.

Improve how you play your character

These rehearsal techniques improve how you perform physically on stage.

- 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.

Foundation Skills

Knowledge Organiser: Drama Foundation

Foundation skills are the drama strategies that can be used to help improve the way that you reveal your plot to your audience.

Always remember, it's not just the story you tell that is important, but also how you tell it!

Role Play

Pretending to be somebody else.

Improvisation

Performing a scene spontaneously without rehearsal.

Marking the Moment

This is a way of highlighting the most important moment in a scene in order to draw the audience's attention to its significance.

Still Image

This is a frozen picture which communicates meaning. It's sometimes called a freeze frame or tableau.

Narration

A narrator is like a storyteller informing the audience about the plot.

Thoughts in the Head

This is when a character steps out of a scene to address the audience about how they're feeling.

Alter Ego

Allowing the audience to hear/see the positive and negative thoughts of a character. It is sometimes called Angels and Devils.

Chorus

A group on stage say the same words and gestures.

Flashback A performance of a scene from the past.

Soundscape Performers make sounds to create an atmosphere.

Slow Motion

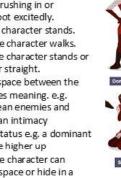
Acting as if time has slowed down. Often used to highlight an important movement.

Mime

Telling a story through movement. Creating characters and objects without spoken word.

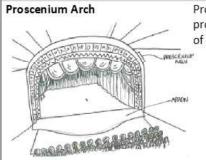
Diaries & Letters Allowing the audience to hear or see the content of a diary or letter on stage.

Please turn over to learn about staging and stage positions.



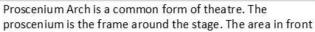
YEAR 7- MICHAELMAS TERM — DRAMA — FOUNDATIONS OF DRAMA

Staging Configurations and Stage Positions



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End on Staging



of the arch is called an **apron**.

- Advantages: Backdrops and large scenery can be used without blocking sightlines. There may be fly space and wing space to store scenery. The frame around the stage adds to the effect of a fourth wall.
- Disadvantages: Audience members may feel distant from the stage. Audience interaction is more difficult. It can feel very formal and rigid.

End on Staging is similar to a Proscenium stage as the audience sit on one side of the stage directly facing it. However it doesn't have the large proscenium frame.

- Advantages: The audience all have a similar view. Stage pictures are easy to create. Large backdrops or projections onto a cyclorama may be used.
- Disadvantages: Audience members in the back rows may feel distant from the stage. It may not have wing or fly areas.



Theatre in the Round is a staging conficuration when the audience are seated in a circle all around the stage.

- Advantages: Intimate space for a performance. It engages the audience because the actors enter and exit the stage through the audience. There is also no 'forth wall'
- Disadvantages: One cannot use backdrops or flats. Stage furniture needs to be small so as not to obstruct sightlines. Actors have to be carefully blocked so that they do not always have their back to one section of the audience.

Promenade Theatre



- Promenade Theatre is where the audience stand or follow the actors through a performance. This can happen in a theatre, but more often happens in a site specific show.
 - Advantage: It is an interactive and exciting type of theatre where the audience feel involved.
 - Disadvantage: Audience may get tired standing and walking. Actors or crew need to be skilled at moving the audience around. There can be health and safety risks.

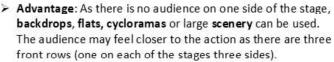
Thrust Staging

719 (UP-0392 - 739-750

Traverse Staging

Arena Staging

In a Thrust Stage, there is audience on three sides of the stage. This is one of the oldest theatre types of stage.



Disadvantage: Sight lines for those on extreme sides may be limited. The audience on the right and left have each other in view. Box sets (three sides of the room are constructed) cannot be used as this would block audience views.

On a Traverse Stage the acting area is a long central space with audience seated on either side facing each other. Like a catwalk.

- Advantages: Audience feel very close to the stage. They can see the reaction of the other side who are facing them which can work well for interaction. Sometimes extreme ends of the stage can be used to create extra acting space.
- Disadvantages: Big scenery, backdrops and sets block sightlines. The long and thin acting area makes blocking difficult. Does not have wing or fly areas.

Arena Staging is a similar configuration to Theatre in the Round. The audience sit on all sides of the stage, however they tend to sit in straight lighes. This type of staging is often used in sporting venues.

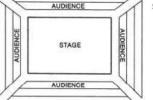
- Advantages: Intimate space for a performance. It engages the audience because the actors enter and exit the stage through the audience. There is also no 'forth wall'
- Disadvantages: One cannot use backdrops or flats. Stage furniture needs to be small so as not to obstruct sightlines. Actors have to be carefully blocked so that they do not always have their back to one section of the audience.

Stage Positions

In order to discuss theatre, you need to be able to explain quickly and simply where you want something to occur. To do this, theatre makers divide the stage up into a grid.

Points to Remember

- Some stages are raked which means they are higher at the back. Therefore upstage is at the back and downstage at the front.
- The direction of stage is always seen from the perspective of the actor. This can be confusing as you will need to swap your left and right if looking at the stage from an audience perspective.





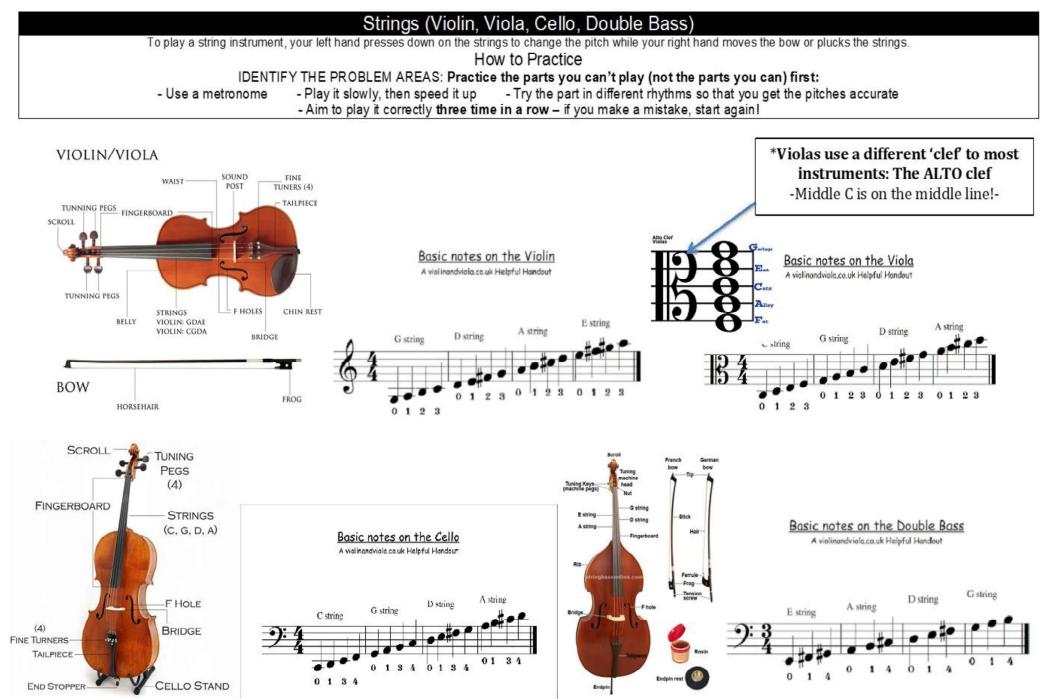
YEAR 7- MICHAELMAS TERM — MUSIC - READING NOTATION AND INSTRUMENTAL SKILLS



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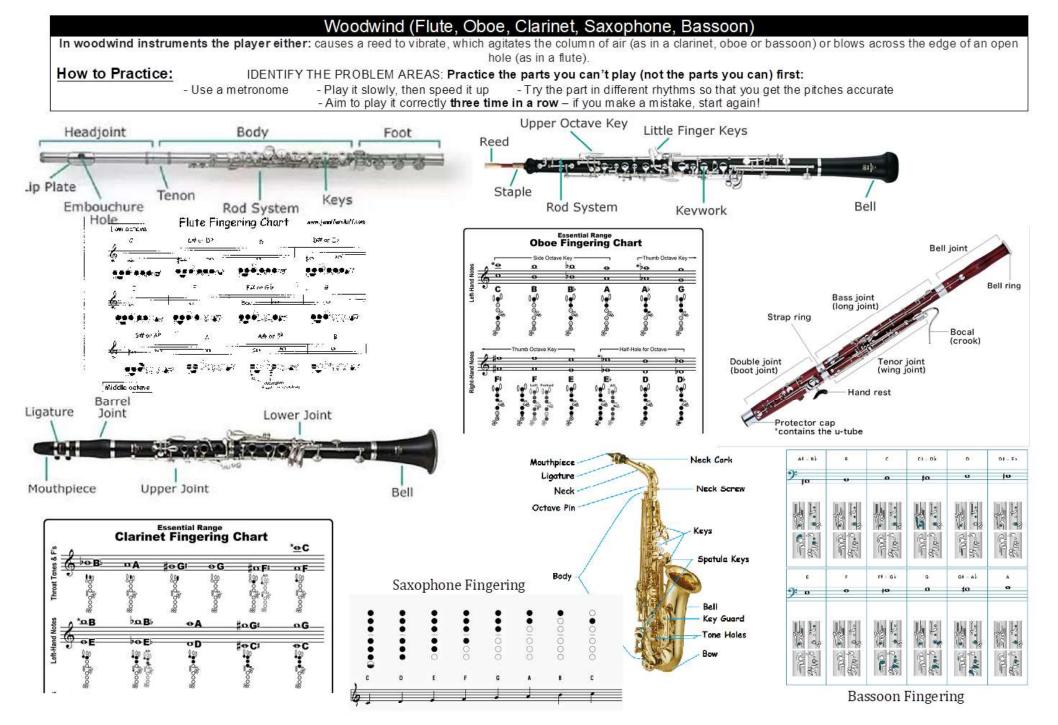
YEAR 7- MICHAELMAS TERM — MUSIC - STRINGS (VIOLIN, VIOLA & CELLO)





YEAR 7- MICHAELMAS TERM — MUSIC - WOODWIND (FLUTE, CLARINET, SAXOPHONE, OBOE & BASSOON)



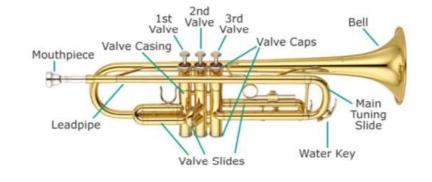


<u>YEAR 7- MICHAELMAS TERM — MUSIC - BRASS (TRUMPET, FRENCH HORN & TROMBONE)</u>

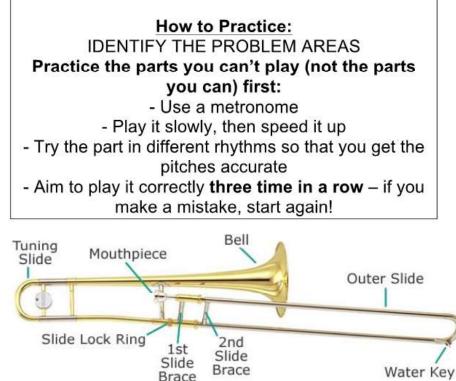
Brass (Trumpet, French Horn, Trombone)





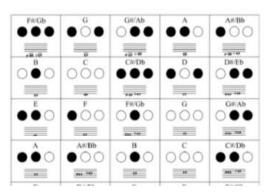


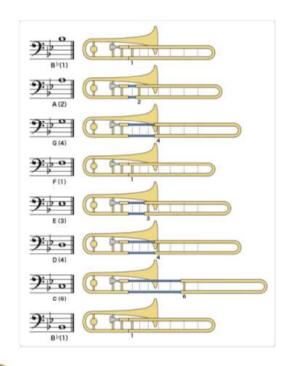
Modern **brass instruments** produce sound through a metal mouthpiece. The mouthpiece is similar on most **brass instruments**, usually varying only in size. Sound is produced by placing the lips on the mouthpiece and blowing while vibrating the lips. The larger the mouthpiece, the lower the sound of the **instrument**.





Trumpet Fingering Chart





Week 1

Key words: Food hygiene and safety

1. Bacteria – single celled organisms. Some can be harmful to humans.

2. Pathogenic – harmful or causing disease 3. Equipment – the tools used in practical lessons

4. Personal hygiene – routines that should be followed by people handling food to avoid contaminating food. E.g. Contaminated hands will spread bacteria around a kitchen very quickly, so having good personal hygiene is important

5. Food hygiene – routines that should be followed to avoid potential health hazards in food.

6. The four C's - Essential for maintaining food safety. They are Cross contamination, Cleaning, Chilling, Cooking,

7. Cross contamination- transferring bacteria that should not be in food from one place to another. E.g. bacteria on unwashed hands will contaminate food.

8. Potential – The possibility of something happening in the future

9. Hazard - anything that can cause harm or danger

10. Recipe – A plan used to inform the cook or chef how to make a 'dish'.

11. Ingredients – the raw food used to make a recipe

12. Food poisoning – An illness caused by eating contaminated food.

Understand the 4 C's Concept



C – Good Hygiene practice prevents <u>Cross</u> <u>Contamination</u>



C – Effective <u>Chilling</u> prevents harmful bacteria multiplying

– Thorough <u>Cooking</u> kills bacteria

	Key rout	ines for Food Hy	giene and Saf	ety in the food room Week 2
Personal Hygiene	Why?		Safety rules	Why?
P1. Wash hands in hot soapy waterTo kill bacteria on your hands to stop contamination		S1. Use oven glove	To stop injury – burns from baking trays	
P2. Tie long hair To prevent hair go back products you cool			S2. Wash up in hot soapy water	To stop cross contamination and kill bacteria
P3. Wear an apror	prevent bac	ur uniform and to eria from your aminating your food	S3. Bags, blazers and coats on hoo at all times	To prevent injury – tripping up or falling over ks
P4. Roll sleeves up	To prevent b contaminatir		S4. Pan handles in 'safe' position	To prevent a fire and injuring from burns
		ontamination of eria that live on	S5 Chairs under th desk or stacked	e To prevent injury – tripping up or falling over
	K	eywords : Knife s	skills, equipme	nt and safety Week 3
Skills	How?		Equipme	nt Function?
SK1. Claw grip	shape to	e held in a claw hold food steady ng or cutting.	E1. vegetable Knife	A small knife mainly used for slicing and dicing
SK2. Bridge hold	grip eithe	and forefinger and side of the . Use knife under cut.	d E2. Cooks knife	A large knife with a deep blade used for cutting chopping, slicing and dicing
	SS CONTAMINATION	1	E3. Vegetable peeler	Peeling the skin from fruit or vegetables
CHOPPING BOARDS & KNIVES RAW MEAT			E4. Palette knife	Spreading icing, lifting food
RAW FISH COOKED MEATS SALADS & FRUITS VEGETABLES DAIRY PRODUCTS			se your meals or tots of fruit and t plenty of fish t down on suga ve no more thar	

EARNING — LOVING — LIVING



	Preparing fruit and vegetable skills			Using equipment Week 6
Key words: fruits and vegetables, eatwell Week 5			Equipmen	t Function?
1. fruit & vegetables – are parts of a wide variety of	Skills	How?	E5.	Mixing food together, stirring food on the hob.
cultivated plants eaten for their flavour and because they provide essential vitamins, minerals and fibre. 2. vegetables – harmful or causing disease	SK3. Mash	Using a masher or fork to make food soft	Wooden spoon	
 3. 5-a-day campaign – a government campaign to encourage us to eat five servings of vegetables/fruit per day 4. The Eatwell Guide – shows how eating different foods can make a healthy balanced diet. 5. diet – the foods you choose to eat 	SK4. shred	To slice into long thin strips.	E6. balloon whisk	Whisking; adding air to a mixture.
	SK5. grate	To make coarse or fine shreds by rubbing over one side of a grater	E7. cooling rack	Cooling food
 6. balanced diet – a diet that contains all the nutrients in the correct amounts 7. healthy diet – a diet that is low in fat, salt and sugar, and high in fibre 	SK6. peel	To remove the very thin layer of skin of fruit and vegetables	E8. chopping board	Chopping and cutting food.
8. traffic light food label – a colour coded food label which helps you to choose healthy foods.	SK7. pipe	To press a soft food through a piping bag fitted with a	E9. saucepan	Boiling or simmering foods
		shaped nozzle to make the food into an interesting	E10. sieve	Adding air to mixtures; removing lumps

SK8.

SK9:

Juice

blend

shape.

To mix two or more

special equipment.

fruit or vegetables

ingredients together; this

can be done by hand or

To squeeze the juice from



Equipment used to weigh and measure Week					
Equipmer	t Function?	Equipment	Function?		
Kitchen scales	Weighing ingredients	Measuring cups	Some American/Australian recipes use cups for dried ingredients		
Measuring jug	Measuring liquids, the side is usually marked with millilitres (ml)	Measuring spoons	Measure an accurate teaspoon or tablespoon. One teaspoon is 5ml; one tablespoon is 15ml		

E11: mixing

bowl

E12.

colander

Mixing food

Draining liquid

<u>YEAR 7- MICHAELMAS TERM — ENGINEERING</u>



waterials	And Keyw	oras				Types Of Wo
Manufact made by r		Ball bearing—A circular hard steel ball.	Acrylic plastic— Flat plastic that resembles glass.	Plywood— A sandwich of thin pieces of wood.	Mitre—A 45° cut in any material.	Softwood—I wood from a (such as pine spruce) as distinguished that of broad trees.
Engineerii Mechanical Electrical		gears, pulleys. on, household appliances,	process. A prototype i evaluate a new design users. Prototyping ser	uilt to test a concept or is generally used to n to enhance precision by ves to provide al, working system rather	Steel — metal with hardness, elasticity, and strength.	Softw
Aerospace Communica		ce vehicles, missiles	batch production. mass production. continuous production.		The ha compa timber	Hardwood The hard, compact wo timber of va
tions Chemical		icals, fossil fuels, food and			Wood fibres— small particles of wood - often glued	trees, as the cherry, mapl mahogany.
Civil Automotive	Bridges, roa Cars, motore	ds, rail cycles, trains			together to make manufactured board.	
Biomedical	Prosthetics, radiotherap	medical devices, y	0			Hard
Software	Applications	, systems, programming		VI LANKS		and the

Tools And Equipment











Bench hook – holding wood



Disc sar g

nder – rapid sandin	g

n The nifer , or om ved



un ٥r s



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

Properties and characteristics of materials

U	Understand the making Process				
1	Preparation	n 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	

<u>YEAR 7— MICHAELMAS TERM — COMPUTING — THE BIGGER PICTURE</u>

Trinity [ARNING —	LOVING	— LIVING	
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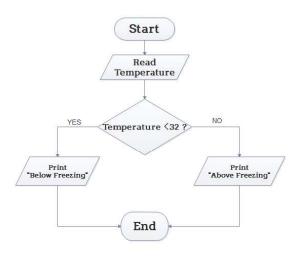
1 2 3	Algorithms Flowcharts Pseudo code	Understand what an algorithm is, what algorithms are used for and be able to interpret algorithms (flowcharts, pseudocode, written descriptions, program code) Understand how to create an algorithm to solve a particular problem, making use of programming constructs (sequence, selection, iteration) and using appropriate conventions (flowchart, pseudocode, written description, draft program code) Understand the purpose of a given algorithm and how an algorithm works	 Export of e-waste NORTH MOBILE Phone providers Surveillance Cameras Encrypted messaging Data Protection Act Cybersecurity Threats and Defences
4	Interpreting Algorithms	Understand how to determine the correct output of an algorithm for a given set of data Understand how to identify and correct errors in	Europe Source: Greenpeace, Basel Action Network
5	Errors in algorithms	algorithms	Emerging Technologies Robotics, Al
6	Python	Understand how to code an algorithm in a high-level language	Internet of Things. Quantum Computing.
•	Negative I	rgy Consumption /aste and health → and Sustainability npacts nate monitoring eworking luced printing	 Legislation Copyrights, Designs & Patents Act 1988 Intellectual Property Hardware patents Computer Misuse Act Hacking / viruses Data Protection Act 1998 Protects Personal data Use Quizlet study sets 06 to learn of the protection act of the protection act of the protection act the protects of the protection act the protect of the protec
•	 Mic Open Sou e.g Lib 	ry . Windows, iOS and MacOS crosoft Office, Adobe Photoshop	 data 8 principles Privacy, accuracy, security Software Licensing Volume Licensing Personal use licensing

YEAR 7- MICHAELMAS TERM - COMPUTING - PROBLEM SOLVING

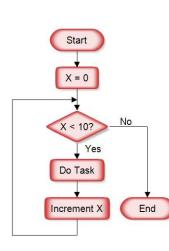
1	Algorithm interpretation	Understand what an algorithm is, what algorithms are used for and be able to interpret algorithms (flowcharts, pseudo-code, written descriptions, program code)
2	Sequence, Selection and Iteration	Understand how to create an algorithm to solve a particular problem, making use of programming constructs (sequence, selection, iteration) and using appropriate conventions (flowchart, pseudo-code, written description, draft program code)
3	Algorithm Purpose	Understand the purpose of a given algorithm and how an algorithm works
4	Algorithm errors	Understand how to identify and correct errors in algorithms
5	Algorithm types	Understand how standard algorithms (bubble sort, merge sort, linear search, binary search) work



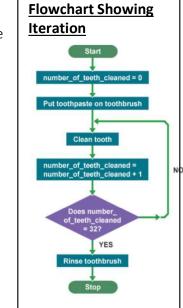
Flowchart Showing Selection



Flowchart Showing Sequence



When designing algorithms, there are many steps where decisions must be made. draw a 3 cm line turn left 90 degrees draw a 3 cm line turn left 90 degrees draw a 3 cm line turn left 90 degrees draw a 3 cm line



Iteration Pseudo-code

When designing algorithms, there may be some steps that need repeating. INPUT – indicates a user will be inputting something OUTPUT – indicates that an output will appear on the screen WHILE – a loop (iteration that has a condition at the beginning)

FOR – a counting loop (iteration)

REPEAT – UNTIL – a loop (iteration) that has a condition at the end

Selection Pseudo-code

When designing algorithms, it is important to make sure that all the steps are presented in the correct order. **IF** represents the **question**

THEN points to what to do if the answer to the question is **true**

ELSE points to what to do if the answer to the question is **false**

YEAR 7- MICHAELMAS TERM — ART— DEVELOPING KEY SKILLS



. <u>Key Terms</u>				
Keyword	Description			
1. Line	Line is the path left by a moving point. For example, a pencil or a brush dipped in paint. A line can be horizontal, diagonal or curved and can also change length.			
2. Shape	A shape is an area enclosed by a line. It could be just an outline or it could be shaded in. Shapes can be geometric or irregular.			
3. Form	Form is a three dimensional shape, such as a cube, sphere or cone. Sculpture and 3D design are about creating forms.			
4. Colour	Red, yellow and blue are primary colours, which means they can't be mixed using any other colours. In theory, all other colours can be mixed from these three colours.			
5. Tertiary Colours	Tertiary colours are created by mixing a primary colour and the secondary colour next to it on the colour wheel.			
6. Complementary Colours	Complementary colours are colours that are opposite each other on the colour wheel. When complementary colours are used together they create contrast. Adding a colour's complimentary colour will usually make a darker shade. This is often preferable to adding black.			
7. Pattern	A design that is created by repeating lines, shapes, tones or colours. The design used to create a pattern is often referred to as a motif. Motifs can be simple shapes or complex arrangements			

Keyword	Description	C. Art Styles
8. Apply	To use knowledge, skills and understanding and to employ appropriate techniques when developing and progressing ideas.	
9. Develop	To take forward, change, improve or build on an idea, theme or starting point.	16. Ndebele art originates from the Ndebele tribe in South Africa
10. Investigate	To enquire into, examine in depth, and/or analyse the relevance of a chosen subject and associated sources.	 17. Traditionally Ndebele women would paint their houses in this style to celebrate events in their family 18. Traditionally locally available materials such as clay and dung were used. 19. Today acrylic paint is used 20. Esther Mahlangu is a famous Ndebele
11. Realise	To achieve, attain and/or accomplish your intentions.	Artist 21. Esther Mahlangu was born in 1935 and is still alive.

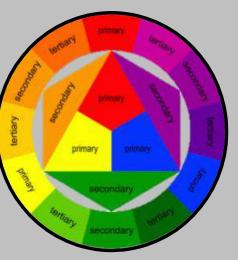
C. Colour Theory

Key terms 4-6 refer to the colour wheel.

13. Warm colours are colours on the red side of the wheel. These are red and include orange, yellow and browns.
14. Cool colours are colours on the blue side of the wheel. These are blue and include green, purple and most greys.

Primary	Secondary
red + yellow	=orange
red + blue	=purple
blue + yellow	=green





Semana 1

Saludos Greetings			
iHola!	Hello!	¿Cómo te llamas?	What are you called?
¿Qué tal?	How are you?	Me llamo	I am called
Bien, gracias.	Fine, thanks.	¿Dónde vives?	Where do you live?
fenomenal	great	Vivoen	Hivein
regular	not bad	iHasta luego!	See you later!
fatal	awful	iAdiós!	Goodbye!

Semana 2

¿Qué tipo de persona eres?	es? What sort of person are you?	rson are you?	
Soy lam		listo/a	clever
iido/a	amusing	serio/a	serious
estupendo/a bril		simpático/a	nice, kind
	fantastic	sincero/a	sincere
generoso/a gen	generous	tímido/a	shy
genial great	at	tonto/a	silly
guay cool	0	tranquilo/a	quiet, calm

Semana 3

Mi pasión My passion	passion		
Mi pasión es	My passion is	el fútbol	football
Mi héroe es	My hero is	la música	music
el deporte	sport	el tenis	tennis
¿Tienes hermanos?	¿Tienes hermanos? Do you have any brothers or sisters?	or sisters?	
Tengo	Ihave	unhermanastro	a half-brother/stepbrother
unahermana	asister	No tengo hermanos.	I don't have any brothers

Semana 4

un hermano una hermanastra

abrother

a half-sister/stepsister

Soy hijo único/hija única. I am an only child. (male/

or sisters.

uno1seisdos2siete	Los números 1 - 31	Numbers 1 - 31		
Ŋ	uno		seis	6
	dos	N	siete	7
ω	tres	ω	ocho	8
4	cuatro	4	nueve	9
ហ	cinco	ப	diez	10

Semana 5

		quince 15				once 11	A DECEMBER OF
treinta	veintiuno	veinte		diacinuava	dieciocho	diecisiete	
30	23	20	} ;	19	18	77	

LEARNING — LOVING — LIVING

¿Cuántos años tienes? How old are you?

	and and Job.		
Tengo años.	l am years old.	mayo	May
¿Cuándo es tu	When is your birthday?	junio	June
cumpleaños?		julio	July
Mi cumpleaños es el de My birthday is the of	My birthday is the of	agosto	August
enero	January	septiembre	September
febrero	February	octubre	October
marzo	March	noviembre	November
abril	April	diciembre	December

Semana 6

Los colores Colours	ours		
blanco/a	white	gris	grey
amarillo/a	yellow	marrón	brown
negro/a	black	azul	blue
rojo/a	red	rosa	pink
verde	green	naranja	orange
¿Tienes mascotas? Do you have pets?	Do you have pets?		
Tengo	Ihave	unpez	afish
un caballo	ahorse	un ratón	amouse
una cobaya	a guinea pig	unaserpiente	asnake
un conejo	a rabbit	No tengo mascotas.	I don't have any pets.

Palabras muy treaventes	avantas	High-frequency words	
bastante	quite	también	also, to
no	no/not	tu/tus	your
mi/mis	my	un poco	abit
muy	very	٧	and
2000	2		

un perro ungato

a dog a cat

¿Cómo son? ¿Cómo es?

What is it like? What are they like?

Estrategia 1 Look, say, cover, write, check

Use the five steps below to learn how to spell any word.
1 LOOK Look carefully at the word for at least 10 seconds.
2 SAY Say the word to yourself or out loud to practise pronunciation.
3 COVER Cover up the word when you feel you have learned it.
4 WRITE Write the word from memory.
5 CHECK Check your word against the original. Did you get it right? If not, what did you get wrong?
Spend time learning that bit of the word. Go through the steps again until you get it right.

hein

Duc

Semana ¿Cuántas p

+ - + miliao 5

ccuantas personas nay	en tu tamilia: How n	Cuantas personas hay en tu tamilla? How many people are there in your tamily?	n your tamily?
En mi familia hay	In my family, there are	misprimos	mycousins
personas.	people.	¿Cómo se llama tu	What is your mother
mispadres	my parents	madre?	called?
mimadre	mymother	Mi madre se llama	My mother is called
mipadre	my father	¿Cómo se llaman tus	What are your cousins
mi abuelo	mygrandfather	primos?	called?
miabuela	mygrandmother	Mis primos se llaman	My cousins are called
mibisabuela	my great-grandmother	Y-	and
mitío	myuncle	su hermano	his/her brother
mitía	myaunt	sushermanos	his/her brothers

Semana 2

•

Los números 20 - 100 Numbers 20 - 100	20 - 100	
veinte 20	setenta	70
treinta 30	ochenta	80
cuarenta 40	noventa	90
cincuenta 50	cien	100
sesenta 60		
¿De qué color tienes los ojos? What colour are your eyes?	hat colour are your eyes?	

¿De qué color tienes los ojos? V	s ojos? What colour are your eyes	are your eyes?	
Tengo los ojos	I have eyes.	marrones	brown
azules	blue	verdes	green
grises	grey	Llevo gafas.	I wear glasses.

Semana 3

¿Cómo tienes el pelo?	What's your hair like?	ę	
Tengo el pelo	I have hair.	rizado	curly
castaño	brown	largo	long
negro	black	corto	short
rubio	blond	Soy pelirrojo/a.	I am a redhead.
azul	blue	Soy calvo.	I am bald.
liso	straight		

Semana 4

¿Cómo es?	What is he/she like?		
Es	He/She is	joven	young
No es muy	He/She isn't very	viejo/a	old
alto/a	tall	Tiene pecas.	He/She has freckles.
bajo/a	short	Tiene barba.	He has a beard.
delgado/a	slim	mis amigos	my friends
gordo/a	fat	mi mejor amigo/a	my best friend
guapo/a	good-looking	su mejor amigo/a	his/her best friend
inteligente	intelligent		



Semana 5

cComo es tu casa o tu piso? What is your house or flat like?	biso? What is your ho	use or flat like?	
Vivo en	Ilive in	cómodo/a	comfortable
una casa	ahouse	grande	big
unpiso	a flat	moderno/a	modern
antiguo/a	old	pequeño/a	small
	nice		

Semana 6

¿Dónde está?	Where is it?		
Está en	Itisin	un pueblo	a village
el campo	the countryside	elnorte	the north
la costa	the coast	elsur	the south
una ciudad	atown	eleste	the east
el desierto	the desert	eloeste	the west
la montaña	the mountains	elcentro	the centre

muy very su/sus his/her	porque because tu/tus your	bastante quite mi/mis my	además also, in addition un poco a bit	Palabras www.fraevantas High-frequency words
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Ca va ?

Ca s'ecrit ...

Pas mal.

Oui, ca va bien, merci

Non ca ne va pas Comme ci, comme ca

Je m'appelle... Bonjour! Comment ca s'ecrit ? Comment t'appelles-tu? On se rencontre (Meeting people)

SO-SO Not bad. What is your name? Hil No, i am OK. Yes, I am OK, thanks. How do you spell that? my name is... It is spelt... how are you?

Les salutations (Greetings)	(Greetings)
Salut	H
Bonne après-midi	Good afternoon
Bon weekend	Have a nice weekend
Bonne journee	Have a nice day
Bon appetit	Have a nice meal
Bonsoir	Good evening
Au revoir !	Good Bye
A bientôt!	See you soon
A plus tard!	See you later
A Dieu!	Farewell

samedi dimanche	jeudi vendredi	mardi mercredi	lundi	(The days of the week)	Les jours de la semaine
Saturday Sunday	Thursday Friday	Tuesday Wednesday	Monday	f the week)	la semaine

	Les mois (The montl	Les mois de l'annee (The months of the year)	
Janvier	January	Juillet	July
Février	February	Aout	August
Mars	March	Septembre	September
Avril	April	Octobre	October
Mai	May	Novembre	November
Juin	June	Decembre	December

Cinq	Ollatre	Troic	Пенх	Un	Zero	Les nomb
σ.		υ I	2	Р	0	re 1 -10 (
Dix	Neuf	Huit	Sept	Six		Les nombre 1 -10 (Numbers 1-10)
10	9	8	7	6		

Les nombre 1	Les nombre 11-31 (Numbers 11-31)	s 11-31)	
onze	11	vingt-et-un	21
douze	12	vingt-deux	22
treize	13	vingt-trois	23
quatorze	14	vingt-quatre	24
quinze	15	vingt-cinq	25
seize	16	vingt-six	26
dix-sept	17	vingt-sept	27
dix-huit	18	vingt-huit	28
dix-neuf	19	vingt-neuf	29
vingt	20	trente	30
trente-et-un	31		

je suis	Moi et les autres
l am	Me and other people

Moi et les autres • Me and other peopl	and other people
je suis	lam
je ne suis pas	l am not
tues	you are
il/elle s'appelle	he/she is called
il/elle est	he/she is
beau/belle	good-looking
branché(e)	trendy
charmant(e)	charming
cool	cool
curieux/curieuse	curious
de taille moyenne	average height
drôle	funny
généreux/généreuse	generous
gentil(le)	nice
grand(e)	tall
impatient(e)	impatient
intelligent(e)	intelligent
modeste	modest
petit(e)	small
poli(e)	polite

LES COULEURS

marron	orange	O blanc	violet	• noir	gris	vert	e bleu	rouge	rose	💛 jaune	un cahier
ron	ıge	nc	et	H.	S	3	ä	ge	e	ne	nier
marron	orange	blanc <mark>he</mark>	violette	noire	grise	verte	bleue	rouge	rose	jaune	une trousse
marron	orange	blancs	violets	noirs	gris	verts	bleus	rouges	roses	jaunes	des caniers
marron	orange	blanc <mark>he</mark> s	violettes	noires	grises	vertes	bleues	rouges	roses	jaunes	des trousses

MODELLING:

7	6	ъ	4	ω	2	1	
Je suis assez grand, mince et très athlétique.	Donc je <mark>sui</mark> s Capricorne. C' <mark>est</mark> le meilleur des signes astrologiques!	parce que la date de mon anniversaire est le treize janvier,	J' <mark>ai</mark> dix ans mais je <mark>vais bientôt</mark> <u>avoir</u> onze ans	Je m'appelle Sébastien mais on m'appelle Seb.	Moi, ça va <u>très</u>bien parce que je <mark>suis</mark> en <mark>sixième.</mark>	Salut! Quoi de neuf ! Comment ça va?	
I am quite tall, slim and very athletic	Therefore , I <mark>am</mark> Capricorn. It is the best star sign!	because the date of my birthday is on January thirteenth,	I have ten years old but I am going soon <u>to have</u> eleven years old	I am called Sebastien but people call me Seb.	lt is going <u>very</u> well because I am in sixth. (year 7)	Hi! What's up! How is it going?	

<u>YEAR 7- MICHAELMAS TERM — FRENCH - BIENVENUE</u>



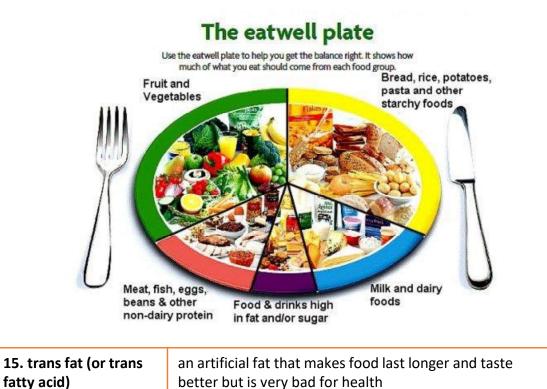
<u>YEAR 7— MICHAELMAS TERM — PSHE— DIET AND FITNESS</u>



Key term	Definition
1. body mass index (or BMI)	a weight-to-height ratio that shows if you're overweight, underweight or at a healthy weight
2. calorie	a unit for measuring the amount of energy we get from food
3. carbohydrate	a substance in foods such as bread and potatoes that is a major source of energy or calories
4. cholesterol	a substance in body cells that can cause heart disease if levels in the blood are too high
5. diabetes	a serious illness in which your body cannot regulate the amount of sugar in the blood
6. malnutrition	a condition of weakness or illness caused by eating too much food, not enough food or unhealthy food
7. nutrient	a substance in food that is necessary for good health
8. obesity	the state of being very overweight, or the medical condition related to this
9. pescetarian	(of a diet) including vegetarian food and fish, but no other meat
10. vegan	(of a diet) with plant foods only; without animal products, including meat, fish, seafood, eggs, milk, cheese, etc
11. vegetarian	(of a diet) with plant foods and sometimes dairy products, but without meat, fish, or seafood
12. preservative	a chemical substance used for preventing food from spoiling or wood from decaying
13. process	to add chemicals or other substances to food to make it last longer or look or taste better
14. saturated fat	a type of fat that's found in butter, cheese, red meat, etc.

8 Tips For Healthy Eating

- 1. Base your meals on higher fibre starchy carbohydrates
- 2. Eat lots of fruit and veg
- 3. Eat more fish, including a portion of oily fish
- 4. Cut down on saturated fat and sugar
- 5. Eat less salt: no more than 6g a day for children 11+
- 6. Get active and be a healthy weight
- 7. Do not get thirsty
- 8. Do not skip breakfast



<u>YEAR 7— MICHAELMAS TERM — PSHE— DIET AND FITNESS</u>

<u>Fitness</u> Key term	Definition
1. Aerobic fitness	A measure of how well your blood transports oxygen around the body, and how well your muscles utilize the oxygen.
2. Aerobic	Meaning with oxygen. Aerobic training is at a lower intensity, with the purpose of stimulating aerobic metabolism to improve.
3. Anaerobic	Anaerobic processes occur in the cells of the body without the presence of oxygen. Anaerobic training is of high intensity and short duration, with the aim of the efficiency of the body's anaerobic energy-producing systems.
4. Body composition	Body composition refers to the components of the body. It is usually divided into two components: the amount of fat mass (weight) and the amount of fat-free mass (muscle, bone, skin and organs) in the body.
5. Cardiovascular	Concerning the heart and blood vessels.
6. Endurance	The body's ability to exercise with minimal fatigue. Often used with other terms such as; endurance training, muscular endurance and cardiorespiratory endurance.
7. Glycogen	The form in which carbohydrates are stored in the body. Primary sites for storage are the muscles and the liver.
8. obesity	the state of being very overweight, or the medical condition related to this
9. Interval training	A training session that involves repeated bouts of exercise, separated by rest intervals. Depending of the length of exercise and rest periods, it may be anaerobic or aerobic training.
10. Lactic acid	Anaerobic exercise produces lactic acid, which quickly forms lactate in the muscles. because of this, the terms "lactate" and "lactic acid" are often used interchangeably.
11. Resistance training	Training designed to increase the body's strength, power, and muscular endurance through resistance exercise. The most common form of which is weight training.





How much physical activity should children and young people aged 5 to 18 do to keep healthy?

Children and young people need to do **2 types of physical activity** each week:

- aerobic exercise
- exercises to strengthen their muscles and bones

Children and young people aged 5 to 18 should:

- 1. aim for an average of at least 60 minutes of moderate intensity physical activity a day across the week
- 2. take part in a variety of types and intensities of physical activity across the week to develop movement skills, muscles and bones
- 3. reduce the time spent sitting or lying down and break up long periods of not moving with some activity. Aim to spread activity throughout the day. All activities should make you breathe faster and feel warmer