

A Scher Salet	edge Organiser	
Etymology Check In Break down the etymology and define these key words:	Engaging writing: Here's what you need to include to be successful!	Pun Add
Metamorphosis	 ✓ Interesting adjectives: give an INTERESTING synonym(s) SCARY:	; Semi-colon = replace 'and <u>Example</u> : <i>I have a big test</i> :
Definition:	LIGHT: COLOURFUL:	
Zoomorphism Definition:	 ✓ Detailed noun phrases: Improve this sentence! His eyes were scary. 	: Colon = replace 'because paragraph <u>Example</u> : <i>Its dangerous to</i> <i>The heroes are the Pevensi</i>
Malevolent	✓ Interesting verbs: give a more interesting synonym(s)	Susan. The White witch is present
Definition: Duality	WALK:	() Brackets = adds inform <u>Example</u> : Mrs Pratchett (the second
Definition:	 Add adverbs: Add an ADVERB to this sentence (describes verb). TIF: Can you improve it further with a technique? Terrified, she ran. 	
Alter-ego		- Dashes = adds information Example: <i>He stopped in sho</i> <i>Mrs Pratchett</i> – the sweets
Definition:	The killer watched the victim.	

nctuation Rules: d your own example!

nd', 'so'; connects two linked main clauses t tomorrow; I can't go out tonight.

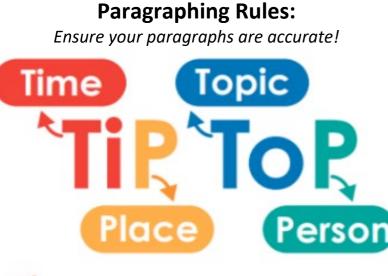
se'; introduce list; introduce quote in PEAR

o drive today: it's icy. sie children: Lucy, Edmund, Peter, and

nted as demanding: 'Speak, vermin!'.

mation (subordinate clause) (the sweetshop owner) is horrible!

tion (subordinate clause); shows a pause shock – the door was already open. etshop owner – is horrible!



Ti... you move to a new period of time

P....you move to a different place/location

TO...you move from one topic to another

P...you bring a new person into your writing, or change from one person to another including dialogue (speech)

Sentence starters:

Have a range of interesting sentence starters!

- Start with an adverb: Quickly, suddenly, angrily etc
 Carefully, he looked round.
- Start with a preposition: Above, around, below etc
 Above the skyscraper roof, the stars twinkled.
- Start with a verb: Running, laughing, watching etc.
 Roaring, the monster sprang at them!
- Start with a subordinate clause:
 Although her heart was racing, she crept forwards.
- ✓ Start with a simile: like/as
 Like a crashing wave, the charged forwards
- Create a mystery: grab your reader's attention!
 It was only meant to be a game. But it went wrong...

Techniques: Give your own example!

Simile: compares with like/as:

The city was buzzing like a hive.

Metaphor: compares directly

The moon was a golden coin.

Personification: describes non-human as human The trees danced in the wind.

Rhetorical question: question to make the reader think *What should I do?*

Zoomorphism: describes human as an animal She snarled angrily.

Triplet/tricolon: list of 3 *The storm was terrifying, fierce, and overwhelming.*

Sentence Forms

Minor: 1-2 words – 'Stop!', 'Go now!'

Simple: One main clause (Subject + verb) – 'You need to leave', 'She frowned'

Compound: Sentence with two main clauses, linked with ; or a connective – '*The lord was evil*; *he was plotting against the king.*', '*It was a beautiful day and the sun was shining*'.

Complex: Main clause with 1 or more subordinate clause – 'Slowly, he rose to his feet', 'Although it was night, the streets were crowded'

Different sentence types have different effects:

- Minor/simple sentences = slower pace and more tension
- Compound/complex sentences = faster pace, quick action, detailed description

English
Ra 4 ✓ Boudi ✓ Greek ✓ Hadria
Anglo ✓ Sutto ✓ Viking
Mee 1066 ✓ Norma ✓ War of
 ✓ Renais Shakes ✓ Slave T
St 1603 ✓ English ✓ Witch
✓ Slav ✓ Ind ✓ Fre
Britis Ame
✓ wv ✓ wo
✓ R ✓ V ✓ V ✓ E

sh Literature Timeline:

Roman Britain 43BC– 410AD dicca burns London ek literature/culture rian's wall built

lo-Saxon/ Vikings 500-1066 on Hoo ship burial ng raids

edieval 66-1485

nan invasion of Roses

Tudors 1485-1603 issance (Da Vinci, espeare etc) Trade/ Empire

Stuarts 03 - 1714 sh Civil War n Hunts

Georgian 1714 - 1837 ave trade banned dustrialisation rench Revolution

Victorians 1837 - 1901 tish Empire nerican Civil War

Edwardian/WW1 1901-1918 /W1 (1814-18) /omen gets right to vote

'Modern era' 1919 - 1945 Russian Revolution WW2 (1939-45) Empire breaks up Illiad/Odyssey

 Greek/Roman myths

 Metamorphoses (Ovid)

• Beowulf

• Viking myths

• Bede's histories

- Canterbury Tales (Chaucer)
- Arthurian legends
- Shakespeare plays
- Divine Comedy (Dante)
- Utopia (More)
- Paradise Lost (Milton)
- Demonologie (King James I)
- Pride and Prejudice (Austen)
- Frankenstein (Shelley)
- Romantic poets
- Christmas Carol (Dickens)
- Jekyll and Hyde (Stevenson)
 - War poets
 - 'Room of One's own' (Woolf)
 - Animal Farm

(Orwell)

• An Inspector Calls

(Priestley)

English Knowledge Organiser

PEA!

Brief Summary of Poems:

Spellbound by Emily Brontë

This poem describes a storm, which appears to be 'trapping' the speaker like a spell. The storm is overpowering and threatening.

Below the Green Corrie by Norman MacCaig

This poem uses a lot of personification to describe the speaker's experience when he is surrounded by mountains. He experiences a range of emotions as a result of the beauty of the mountains.

Storm in the Black Forest by D.H. Lawrence

This poem describes the sheer power of nature over man- by describing the power and beauty of a storm. It goes into detail about the beauty and strength of the lightening.

Wind by Ted Hughes

In this poem, the speaker is trapped inside a house due to the ferocious winds outside. The poem describes how chaotic and dangerous the wind is outside. The speaker goes onto say how the wind and being trapped in the house takes a toll on their mental state.

The Moment by Margaret Atwood

This poem reminds us of the power of nature over humanity. In the poem nature is given a voice and it threatens humanity. It states even though humans feel they are in control, nature can take back that control at any time.

Whispering Waves by Edel T. Copeland

This poem describes the sea and expresses the power nature holds over humanity. It addresses the emotional impact nature can have on us.

Hurricane by James Berry

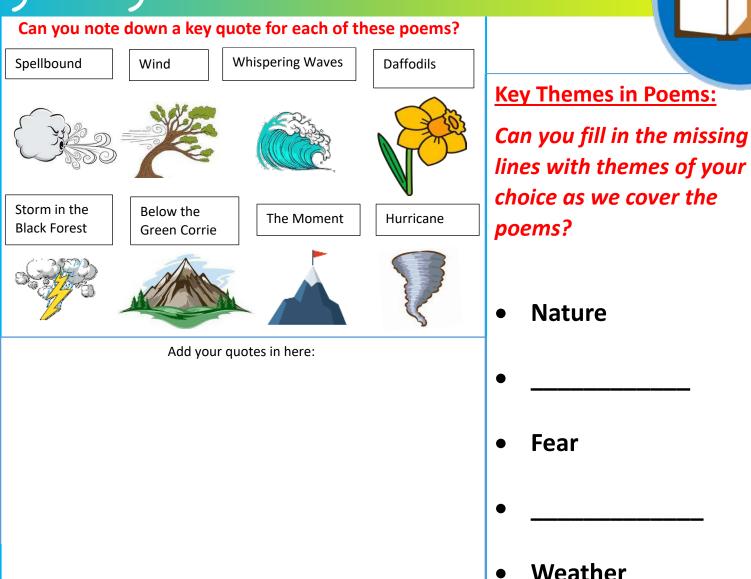
This poem portrays the aftermath of a hurricane and the physical effects of such a powerful storm.

Daffodils by William Wordsworth

This poem considers the positive effects of being around nature and how it positively affects the wellbeing of people.

What do we need to include in a successful paragraph?

- ✓ Point
- ✓ Example
- ✓ Analysis
- ✓ Technique



English Knowledge Organiser

Key Quotes from Poems

Spellbound- What do these quotes show? 'A tyrant spell has bound me' 'The wild winds coldly blow'

The noun 'tyrant' suggests... The adjective 'wild' could show...

Below the Green Corrie- What do these quotes show? 'The mountains gathered around me like bandits' 'Their leader swaggered up close in the dark light'

The verb 'gathered' makes us... The verb 'swaggered' implies...

Storm in the Black Forest- What do these quotes show?

'Jugfull after jugfull of pure white liquid fire' 'A still brighter white snake wriggles among it'

The repetition of 'jugfull' could suggest... The metaphor 'still brighter white snake' shows us...

<u>Wind- What do these quotes show?</u> 'This house has been far out at sea all night' 'Winds stampeding the fields'

The preposition 'far out' makes us think... The verb 'stampeding' could portray...

Key Poetic Techniques:

Rhyme- The ends of the lines have the same sound *e.g. pie and sky*.
Repetition – A word or phrase is used more than once. *E.g. faster and faster, the cheetah ran...*Onomatopoeia- When a word sounds as it is *e.g. boom*.
Metaphor- Two things are compared by saying one thing is the other *e.g. the sun was a glittering ball in the sky*.
Simile- Comparing something using 'like' or 'as. *E.g. the sun was like a glittering diamond*.
Personification- When an inanimate object is given human features. *E.g. the tree danced in the breeze*.

Hyperbole- Exaggeration e.g. the sun melted my skin.

Key Quotes from Poems

The Moment- What do these quotes show? 'The trees unloose their soft arms from around you' 'The air moves back from you like a wave and you can't breathe'

The personification in 'unloose' shows... The simile 'like a wave' could make us...

Whispering Waves- What do these quotes show? 'Powerful and strong, it breathes and roars.' 'Cascading and caressing each grain of sand'

The personification in 'breathes and roars' could imply... The alliteration in 'cascading and caressing' creates...

Hurricane- What do these quotes show? 'Zinc sheets are kites.' 'Then growling it slunk away.'

The metaphor 'zinc sheets are kites' is used to show... The personification in 'growling' could make us think of...

Daffodils- What do these quotes show? 'Fluttering and dancing in the breeze.' 'Ten thousand saw I at a glance'

The personification in 'dancing' suggests... The hyperbole in 'ten thousand' could indicate...

PEA Sentence Structures:

POINT:

In the poem, one way the poet displays _____ is...

EXAMPLE:

This is shown through the use of (mention a technique here) in ' ... '

ANALYSIS:

This suggests/this shows...

It could also suggest that...

The word _____ could highlight...

Another word that supports this is _____ because...

As a reader I understand...

Art Knowledge Organiser

Pablo Picasso



<u>Key features:</u>

Bright colours- line- boldgeometric- shape- profileunusual features- mark making. <u>Working in the style of an artist:</u> You need to use these techniques and features in your own study. KEY WORDS – test yourself! (definitions on the next page) Geometric- Abstract- Cubism- Surrealism- Bold- Painterly- Outline- Features-Bright- Complementary colours- Contrast- Shape

Portraiture Year 7 Spring term



In the style of:

When creating a piece of art in the style of an artist it is very important you thoroughly understand their techniques in order to copy them effectively.

Besides using their techniques, you also need to take pride in your work and be as neat as possible. Here are some things to consider:

- Have you used bold colours?
- Have you used patterns in Picasso's style?
- Have you used unusual features?
- Is the scale correct?
- Have you included geometric shapes?
- Is your colour scheme appropriate to the artist?

KEY WORDS AND MEANINGS:

Abstract	Art that does not represent reality accurately, instead the art is made from lines, shapes, colours, forms etc.
Cubism	In Cubist artwork, objects are analysed, broken up and reassembled in an abstracted form.
Surrealism	Art that is made to portray the workings of the unconscious mind as manifested in dreams.
Painterly	The application of paint in a 'loose' or less than controlled manner leaving visible brush strokes in the piece.
Complementary colours	Pairs of colours that contrast with each other more than any other colour
Outline	The line by which an element or object is defined or framed.
Bold	A bold colour or pattern is very bright and noticeable.
Contrast	when opposite elements are arranged together, e.g. Black next to white.
Geometric shapes	Shapes that are are characterised by straight lines, angles and points.
Features	Distinctive attributes or aspects of something. For example, facial features.

Colour code: BLUE= Tier 3 words ORANGE= Tier 2 words

Look out for colour coding during lessons!

Drama Knowledge Organiser





Canon – moving one after another (the same movement)

Choral Speaking – Saying exactly the same lines as each other at the same time

Key Question: What is a Amphitheatre? What was theatre like in Ancient Greece?





- The stage where the actors performed was called the Skene
- The Theatron was the semi-circular seating area.
- The semi-circular dancing space where the chorus performed was called the Orchestra
- The Skene had underground passages, trap doors and different staging levels
- Parodos on each side of the stage. They were used for the chorus to enter and exit the Orchestra.



- 1. The chorus was one of the most important components of the play.
- 2. They narrated and reflected on the action.
- 3. Without them, the audience would have no background information, and the play would be more confusing.
- 4. Originally the chorus had **twelve** members.
- 5. They moved and spoke as one (Choral Speaking)

They sang, or sometimes said, basic information.

Drama Knowledge Organiser



KEYWORDS AND TECHNIQUES EXPLORED

Role Play - The act of pretending to be somebody else, of taking on a role

Split focus – Two separate scenes occurring at one time- once scene freezes whilst the other scene performs

Multi-role – When an actor plays more than one character onstage

Thought Track – When a character steps out of a scene to address the audience about how they're feeling

Levels – How high or low a character stands to show status (how powerful they are)

Devising - Creating your own performance using your own ideas

Tension - A growing sense of expectation within the drama, a feeling that the story is building up towards something exciting happening

Stereotypes - an idea or belief many people have about a thing or group that is based upon how they look on the outside, which may be untrue or only partly true.

Storytelling Theatre



Split Focus



Proxemics





I			
UPSTAGE	UPSTAGE	UPSTAGE	
RIGHT	CENTRE	LEFT	
CENTRE CENTRE CENTRE			
STAGE RIGHT	GE RIGHT STAGE STAGE LEFT		
DOWNSTAGE DOWNSTAGE DOWNSTAGI		DOWNSTAGE	
RIGHT CENTRE LEFT			
AUDIENCE			

Key Skills:

Audience Awareness, Vocal projection, Facial Expressions, Body Language, Gestures, Pitch, Pace, Pause, Tone

Madame Tussauds

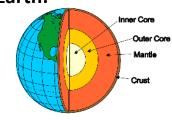
A famous wax work museum full of wax figures of famous people!





Geography Knowledge Organiser

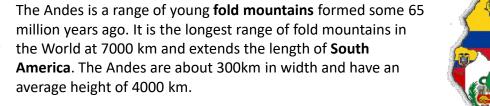
Structure of the Earth:





Destructive Plate Boundary:

Destructive plate boundaries form when there is an oceanic plate and a continental plate moving towards each other. Because the oceanic plate is more dense, it subducts (sinks) beneath the continental plate. As this happens, fold mountains form. The Andes were formed at a destructive plate boundary.

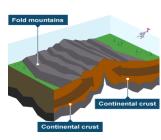




People use The Andes for:

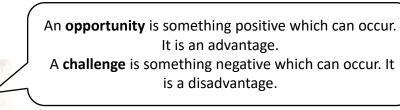
- Tourism
- Mining
- Farming
- But there are opportunities and challenges for each of these activities

South America is a continent South West of the UK



Collision Plate Boundary:

Collision plate boundaries form when two continental plates collide. Neither plate is forced under the other, and so both are forced up and form fold mountains.

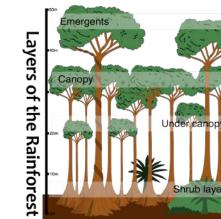


Andes Activity	Upportunity 🛛	Challenge
Tourism	Tourism provides a <u>high number of jobs</u> which allow people to <u>earn an income</u> and <u>improve</u> <u>their quality of life</u>	High numbers of tourists in an area can <u>cause soil erosion</u> and increase the <u>amount</u> <u>of litter in an area.</u>
Mining	There are a large number of <u>jobs</u> at the <u>Yanacocha mines.</u> The <u>gold</u> from the mines is sold worldwide and supports the economy	<u>Contamination of water</u> supplies due to cyanide from the use of dynamite. This can lead to <u>deaths of local people</u>
Farming	<u>Terracing can help to overcome the challenge of</u> <u>steep slopes</u> , where steps are built into the landscape. Farmer can <u>sell the crops they grow for money</u>	The slopes are <u>very steep and can result in</u> <u>the soil at higher altitudes being thin</u> which is not suitable for growing crops.

Year 7: South America

Geography Knowledge Organiser

Tropical rainforests are split into different layers; shrub layer, under canopy, canopy and emergent layer. Different layers receive different amounts of sunlight. The shrub layer is the bottom layer and receives the least sunlight. The emergent layer is the top layer and receives the most sunlight. Those plants which receive less sunlight grow slowly and those that receive more, grow quickly



Climate: The average weather conditions over a

period of 30 years.



Why is the Tropical Rainforest important?

Use of the TRF	Specific example
Food	Chocolate / Chewing gum
Houseplants	Cheese plant
Medicine	Rosy periwinkle which treats Leukaemia

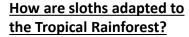
Did the Rio Olympics help Brazil?

I was one of 45,000 volunteers at the Olympics. It was amazing seeing people from all different backgrounds being brought together.

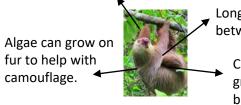
I was one of 77,000 Brazilians who had been forcibly removed from their homes in the favelas to make space for stadiums and roads.



The Rio Olympics have really helped us as country to leave a last legacy. As the mayor Rio, I am so proud o what our country ha achieved.



Brown fur to camouflage with the branches and protect from predators.



Long arms to swing between branches

> Curved claws to grip onto branches

Palm oil is an edible vegetable oil that is in very high demand and is used of loads of different products. Should we use the Amazon to grown palm oil?

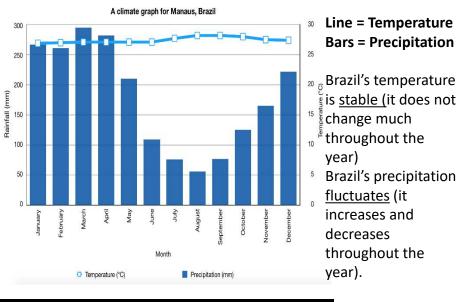


children.

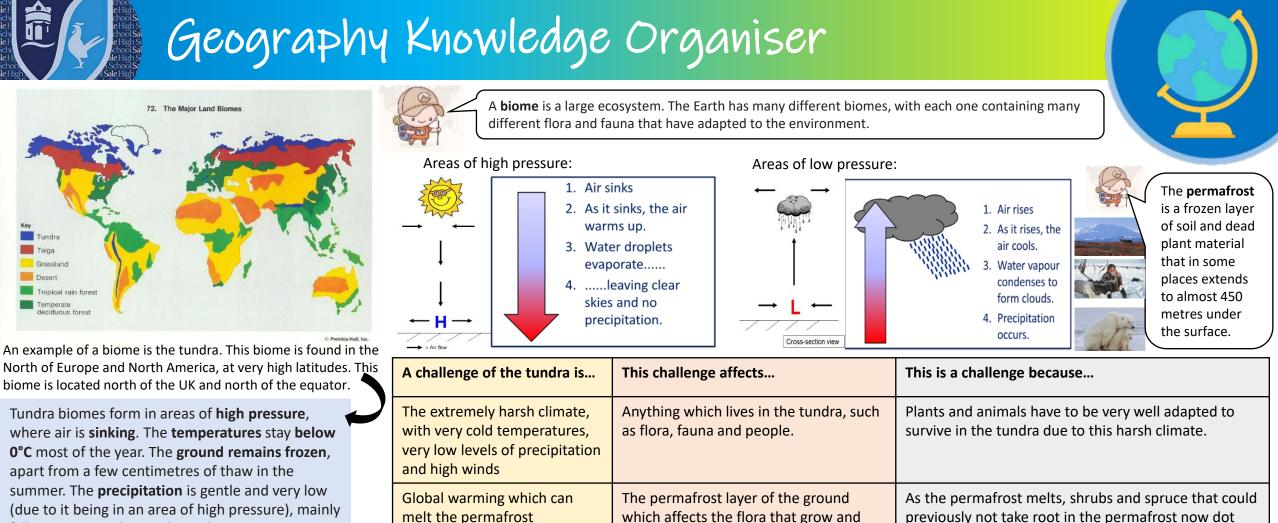


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	Reasons <u>for</u> growing palm oil in the Amazon	Reasons <u>against</u> growing palm oil in the Amazon
	Palm Oil is in <u>high demand so lots of</u> <u>countries will need to buy it,</u> helping Brazil to <u>earn money</u> and	A lot of <u>forest is deforested to make</u> <u>space for plantations which</u> can <u>destroy the habitats for fauna</u>
	therefore increase their <u>economy</u> .	(animals).
ave	Palm oil plantations provide farming	Palm oil plantations can interfere
а	jobs for local people. Therefore,	with the way of life of local people.
sting	people can <u>earn money</u> and	For example, <u>local tribe members</u> who
r of	improve their quality of life as they	rely on <u>hunting rainforest animals for</u>
of	can spend money on food, health	food, may see a decrease in their food
as	care and education for their 🛛 🕋	supply because of deforestation.



Year 7: South America



falling as snow. The winds can be very strong. **Summers** may have many hours of continuous daylight. **Winters** are long, dark periods.

The **climatic conditions** mean that the landscape is quite bare, with little vegetation.

It is these harsh conditions of a tundra biome, which cause it to be classed as an extreme environment.

Year 7: Extreme Environments

Alaska is located on the continent of North America. Alaska is to the East of Russia and the West of Canada. Alaska is located North West of the UK.

the fauna that can survive in the tundra.

The Earth's climate

the landscape, altering the habitat for native fauna.

sink and releases CO2 into the atmosphere,

contributing to global warming.

As the permafrost melts, it no longer acts as a carbon



Global warming which can

melt the permafrost

Geography Knowledge Organiser

Oil and Gas in Alaska

Oil and gas is non renewable and the world is running out. Without oil and gas, the world will struggle to generate power.

In Alaska, the largest energy source is oil and gas with huge amounts located in Prudhoe Bay oil field.



In 1977, a pipeline, called the Trans-Alaskan Pipeline, was completed which transport this oil 1287km South from Prudhoe Bay to

Valdez.

Once the oil reaches Valdez, it is then transported by tanker to the mainland USA.

Advantages and disadvantages of exploiting the tundra

The oil and gas industry in Alaska employs 110,000 people. This means that 110,000 people can earn a source of income

If pipelines are built directly onto the tundra or are buries, they can melt permafrost, impacting the fauna and flora which has adapted to life in the biome.

The pipeline transports 212 million barrels of oil every year, bringing in huge amounts of money.

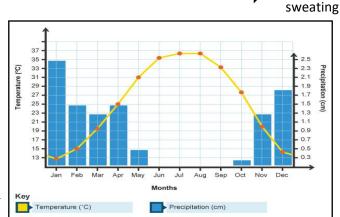
Machinery used to extract oil can disrupt local way of life. For example, the machinery could scare away wildlife which people rely on for hunting.

Year 7: Extreme Environments



Cotton grass is adapted to live in the tundra where it is extremely cold, dry and windy

Camels are adapted to live in the hot desert where temperatures can reach up to 53°C and there are very low levels of precipitation



This is a climate graph for a hot desert biome. The hottest months are July and <u>August at 36.5°C</u>. The wettest month is <u>January at 2.29cm</u>. The driest months are <u>June, July, August and September</u> where there is on average, <u>no precipitation</u>.

Why are deserts so dry?

Deserts form in areas of <u>high pressure</u>, where <u>air</u> <u>sinks</u>. As air sinks, it <u>warms</u> up and <u>water droplets</u> <u>evaporate</u>. Therefore, <u>clouds do not form</u> so there is very <u>little precipitation</u>.

Adaptations of cotton grass to the tundra:

1. Small seeds because these can then be easily dispersed by the wind.

- 2. Narrow leaves to reduce water loss by transpiration
- 3. Short in height to protect it from the wind and to allow it to be covered by snow in Winter, protecting it from the extreme cold

Adaptations of camels to the hot desert:

1. Humps which store fat because this allows them to go weeks without eating food

2. They can go weeks without drinking water because they can drink gallons in one go, this shows they are adapted to the arid (dry) conditions

. Their body temperature can change because this allows them to reduce water loss from

Desert Name	Thar Desert (World's seventh largest desert)	
Location	Covers 200,000km squared on the border between Pakistan and India	
Climate	Temperatures can reach as high as 53°C and there is less than 230mm of rainfall per year	
Opportunities	 Mineral extraction The removal of mineral resources from Earth For example, there are large amounts of gypsum which can be sold and used to make plaster Tourism People visit the desert for recreation and their own leisure There is an annual festival in the Thar desert which attracts thousands of people 	
Challenges Melting tarmac • The extreme temperatures can cause tarmac roads • This limits accessibility as people struggle to move bareas Water insecurity • As the population of the Thar desert has increased a agriculture and industry have developed, water has scarce resource		



History Knowledge Organiser

HEAVEN

Topic 3: Medieval Religion

Why was the Church so important? People in England were Christians. This religion had been introduced by the Romans and had been continued by the Analo-Saxons, Vikinas and Normans. People wanted to be good Christians and so they would listen to the Church and those who worked for it.

Medieval views of Heaven: A Christian who lived their life in the right way and only did good was believed to go to heaven. This is believed to be a paradise to spend all eternity in after you died. To get to heaven, you could:

- Pray regularly
- Donate tithes (money to the Church)
- Travel on a **pilarimage** Fight (or die) in a crusade

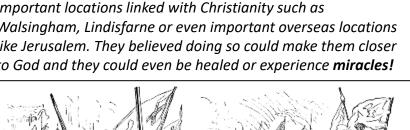
Medieval views of Hell:

On the other hand, a Christian could live their life in a wicked way and they could sin. For doing this they could risk going to Hell. Priests warned people about Hell in two ways:

- Speaking about the dangers of sinning in sermons
- Showing *peasants* horrible pictures of what Hell may look like called **doom paintings**

What were pilgrimages?

Christians who really wanted to show their dedication to God would become *pilarims*. They would travel long distances to important locations linked with Christianity such as Walsingham, Lindisfarne or even important overseas locations like Jerusalem. They believed doing so could make them closer to God and they could even be healed or experience miracles!



Who was powerful in the Church?

People believed priests were powerful and influential as they understood God, Heaven, and Hell. Many peasants were illiterate and could not read for themselves. Powerful clergy included:

- The **Pope** who was the head of the Catholic Church in all of Europe. He declared crusades to the Holy Land.
- The Archbishop of Canterbury. He was the head of the Church in England. He took his orders from the Pope.

Why did people fight over the Holy Land? The Holy Land is territory in the Middle East. Multiple religious groups believe it is important for varying reasons. Christian warriors known as crusaders fought Muslim warriors known as **Saracens** for control of the region. Everyone from peasants to kings

- fought! The reason crusaders battled include:
- Religious reasons. Crusaders were serving their God and their sins were forgiven if they went on crusade (even if they died!)
- Economic reasons. They could loot resources and take riches from the enemy. They could tax conquered people.
- Political reasons. They could set up powerful states and make themselves more powerful.

What happened between Becket and King Henry II? One famous Archbishop of Canterbury was Thomas Becket. He was Archbishop under King Henry II of England. The two were close friends until:



- Henry II was upset that Becket would not change the Church to make the Crown more powerful
- Becket fled to France from 1164 to 1170
- He returned and the pair still were not friends
- Four knights on behalf of the king killed Becket in Canterbury Cathedral



History Knowledge Organiser

Topic 4: Medieval Monarchs

Who had power in Medieval England? When the Normans conquered England they realised that they needed help controlling the country. The King gave land in return for loyalty and taxes. Those further down the **feudal system** were meant to be loyal to those above them, even though at the very bottom the peasants had very little political and economic power. Those lower down the feudal system were not meant to challenge those above them. As well as this, the **monarch** was believed to have been chosen by God.

Feudal Pyramid of Power

<u>Who was King John?</u> John ruled from 1199-1216. He was unlikely to have become King. He had very little political experience. He began ruling when England had no money – it had been spent on the Third Crusade! He became very unpopular by demanding high taxes. Why did the barons challenge the Feudal System? The barons were unhappy with King John. King John charged high taxes, lost land in France, and is believed to have killed his nephew Arthur. The barons demanded more power as they helped the monarch to rule the country.

What did the barons do? In 1215 they forced King John to sign the Magna Carta. This was a legal document. It meant the King was not above the law and had to follow rules. For example, he could not raise taxes on his own. John and other kings agreed to the rules of the Magna Carta.

Famous Medieval Queens of England:

Men were believed to be more powerful than women and were believed to be suited to ruling. This did not stop women from having a position of power and influencing English history:

Empress Matilda – In the 12th Century she had claim to the English throne. She did not get chance to rule for long but her son Henry II became heir and ruled next.

Eleanor of Aquitaine - In the 12th Century she travelled on a crusade, successfully demanded a divorce, and formed a rebellion and even spent time arrested.

Isabella of France - In the 14th Century she received a high quality education, joined her husband in battle against the Scots and started a rebellion for her son.

Margaret of Anjou – In the 15th Century she ruled on behalf of her husband when he was unwell to do so. She gathered troops and participated in battles.

What did the Magna Carta change? Kings now had to follow a legal system to raise taxes and to arrest people. He could not take more money from his subjects without their approval. This gave the barons more power, and eventually under Edward I a parliament was established. However peasants did not receive any legal protection and did not have any political status as a result of the Magna Carta.

Who was King Edward I?

Edward ruled from 1272-1307. He was a very experienced military king. Both Wales and Scotland were conquered by Edward and he ordered stone castles built to keep control of

them. However Edward faced rebellions from the Scottish. Rebel leaders included Robert the Bruce and William Wallace.

History Knowledge Organiser

SAL

Black Bile

Earth

Yellow bile

Fire

Phlegm

Topic 5: Medieval Medicine

What was Medieval medicine like? Before the discovery of germs they were very different ideas on what caused sickness:

Four Humours – the idea behind this theory was that the body was made up of four different parts and if there was an imbalance then the person would be ill.

> Supernatural – many believed in superstitious causes of disease. Ghosts or witches could cause somebody to fall ill. If the planets were in the wrong position then it could cause people to become unwell.

Religion – people in Medieval times believed if they were good then God would reward them. If they were sinful then God would punish them with disease. Some believed the plaque was God ending all life on Earth.



(o o)

Miasma (bad smells) – Medieval towns were very filthy places and some people believed bad smells caused by butchers, tanners and other businesses could pollute the atmosphere and cause disease.

What was the Black Death?

The Black Death is also known as the **bubonic plague**. It was spread by fleas carrying a deadly type of bacteria. The fleas, spread by rats, would bite humans. Symptoms included swellings, black marks on the skin, high fever, and eventually death.



What cures did people use for the Black Death?

What were the consequences of the Black Death?

until 1350. However it caused lasting changes:

The Black Death arrived in England in 1348 and lasted

The **barber surgeons** and **monks** of Medieval Europe tried to do what they could to treat the disease. It killed 30-60% of Europe. Those who did survive were often left disfigured and ill. Treatments included:

Prayer – they believed God would forgive them and their disease might go away. Some extreme Christians known as **flagellants** would even hurt themselves to be forgiven.

Plaque epidemics – every few years

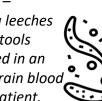
cases of plaque would return and

many more would die of disease



Bloodletting –

bloodsucking leeches and medical tools would be used in an attempt to drain blood from a sick patient.



Natural cures – herbs and plants found in nature were used to try and relieve the symptoms



Why did the peasants challenge the Feudal System? The Black Death had killed lots of peasant workers. Fewer peasant workers had to work even harder to collect food to feed their lords. Many of these did not receive wages. In 1381 peasants rebelled in the Peasants Revolt. They marched on London, met with King Richard II and left believing that Richard II would give them more power and wages.

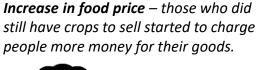


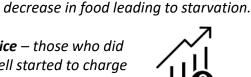
The King went back on his word and killed the peasant leaders. Over time unpopular taxes were stopped and lords of villages had to pay their peasants more and charged them less rent. Within 50 years peasants were allowed to buy their own freedom and move around the country freely.

Increase in crime – people began to live as if they were living their last day. They drank heavily and broke the law.

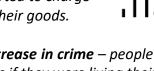






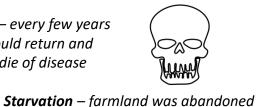






and villages were deserted. Crops were

not looked after and so there was a





Religion and Ethics Knowledge Organiser



Honour your father & mother

Do not murder

Do not commit

adultery

Do not steal

Do not lie

Do not covet

Do not worship any other gods

Do not make any idols

Do not misuse

God's name

Keep the

sabbath holy

Year 7 Knowledge Organiser - What is the influence of the Bible?

What is the 'Big Picture' of the Bible?

The word Bible comes from the word 'Biblios' meaning Library in Greek. It is made up of a collection of 66 books, written by a variety of people over a long period of time. The first book of the Bible is the *Genesis creation story* which was written 3500 years ago. The stories (Gospels) about Jesus were written nearly 2000 years ago. The Bible continues to tell the story of the **relationship between God and humanity**.

The Bible is split into two halves: The Old Testament & The New Testament.

What is the Old Testament?

Gospel = Good News!

The "Old Testament" is a collection of writings that has many authors and styles: history, prophecy, poetry, wisdom, and law. Genesis introduces Adam and Eve as the first people to have a relationship with God. They are tempted, commit sin and 'Fall' from God's favour.

The Old Testament books follow a similar pattern: God sends **Prophets** to give God's message but humans keep on ignoring God's wishes and sinning against God. The Old Testament ends with a prophecy that a **saviour (Messiah)** will come to save humanity from their sins and repair the relationship between God and humanity.

What are the rule found in the Bible?

There are <u>613 rules</u> in the **Old Testament** which cover all areas of life such as what you should **eat and relationships, as well as how to worship God.** The most famous rules from the Old Testament which are the '**10 Commandments**' which were given to the **prophet Moses** on Mount Saini. These are Jewish rules which they still live by today. In the **New Testament**, Jesus cites two commandments that must be followed over all others. These are: <u>'Love God'</u> and <u>'Love your</u> <u>neighbour'</u>. Christians believe Jesus came and replaced the Jewish laws with these 2 easier <u>'golden rules'</u>.

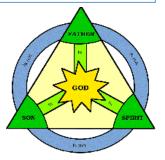
What is the New Testament?

Four hundred years after the last book of the Old Testament, Jesus is born. The Gospel of Matthew details his birth story as a miraculous event as he is born of a virgin called Mary. It includes four Gospels in total: *Matthew, Mark, Luke, and John*. Gospels tell the stories about Jesus. "Gospel," means good *news* and refers to Jesus being good news. The central message of the New Testament is that God loves us and he wants to save us from sin. He does that by coming to speak to us in the form of Jesus tot each us about how we should live.

What is the Trinity?

Christians believe Jesus is part of the <u>Trinity</u>. This means they believe he is God in human form, otherwise known as the <u>incarnation of</u> <u>God</u> sent to teach people what God wants. **The 3 parts of the One God in Christianity are: The Father, the Son (Jesus) and the Holy Spirit**





Religion and Ethics Knowledge Organiser

Why is Jesus' baptism significant?

When Jesus was **baptised** in the river Jordan, it signals the start of his <u>ministry</u>. This is the point where Jesus goes out to teach people parables and perform <u>miracles</u> to teach what God wants. According to the Bible it states that God spoke (like a father) to Jesus and the Holy Spirit <u>descending</u> on Jesus like a dove. This shows Jesus is part of the <u>Trinity</u>.



Who were the disciples? Jesus chose 12 men who he recruited to be his main followers to help him spread his messages to the people.

The Parable of the Prodigal Son

Parables are stories with a hidden meaning and he taught them about God and how to behave. One of Jesus most famous **parables** is the **Prodigal Son**. In this story, a son turns his back on his family and spends all of his father's money. When he runs out of money and is left jobless he returns to his father to say sorry. His father has a big party and welcomes him home.

- The father represents God
- The Prodigal (Lost) son represents the oldest son who leaves home with the money but returns
- The meaning of this story was that G od will always <u>forgive</u> if you say sorry and mean it by showing it through actions and not just saying it.



Who is St Paul?

Saint Paul is one of the most important figures in Christianity. Before he convert to Christianity on the road to Damascus, He <u>persecuted</u> Christians. However, after he **converted** he travelled around the Mediterranean <u>spreading the word of Jesus</u> and writing **Epistles**, which are **letters** to help converted communities. By doing this he helped turned what was a small religious sect into one of the worlds biggest religions.

What are the important messages of the Gospel?

Jesus taught people about what makes good behaviour. His most famous teaching is 'Love your neighbour'. This means to <u>respect</u> and care for everyone because everyone is your neighbour. He also taught to care for the <u>vulnerable</u> and the poor . He also taught to forgive people in order to let go of hate and bitterness. He also taught to never use violence.

Top Quotes from Jesus:

- 'Love your neighbour'
- 'Blessed are the 'peacemakers
- 'Forgive 70 times not 7'
- 'Turn the other cheek'



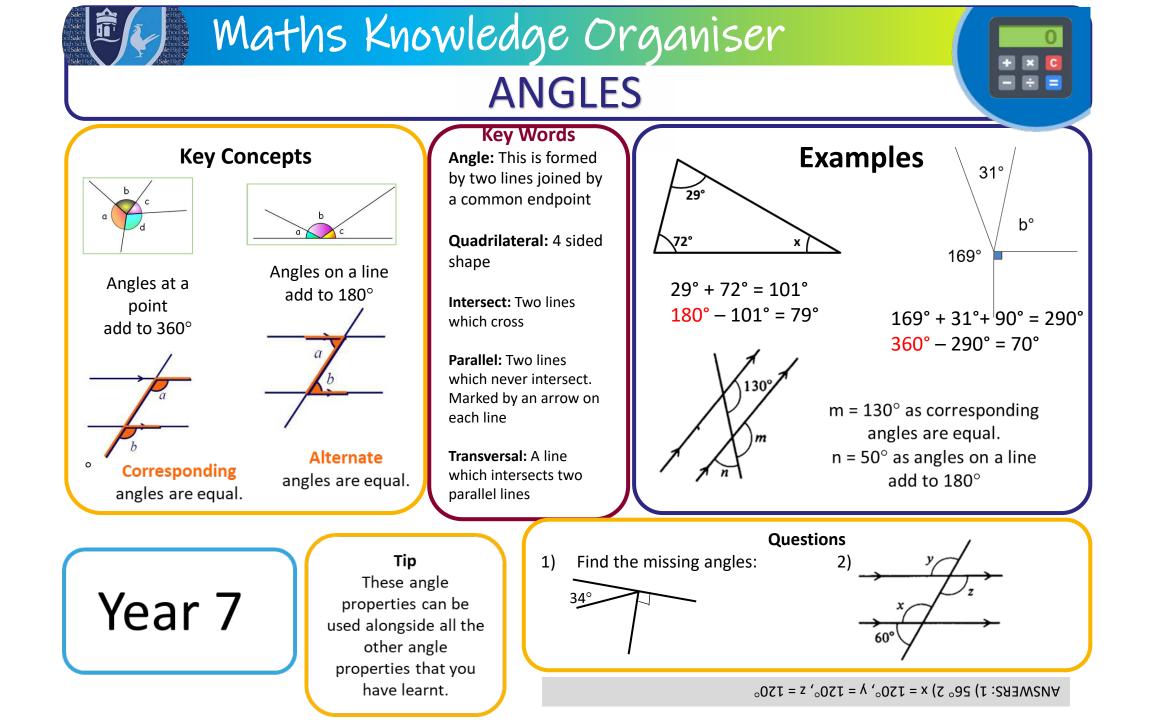


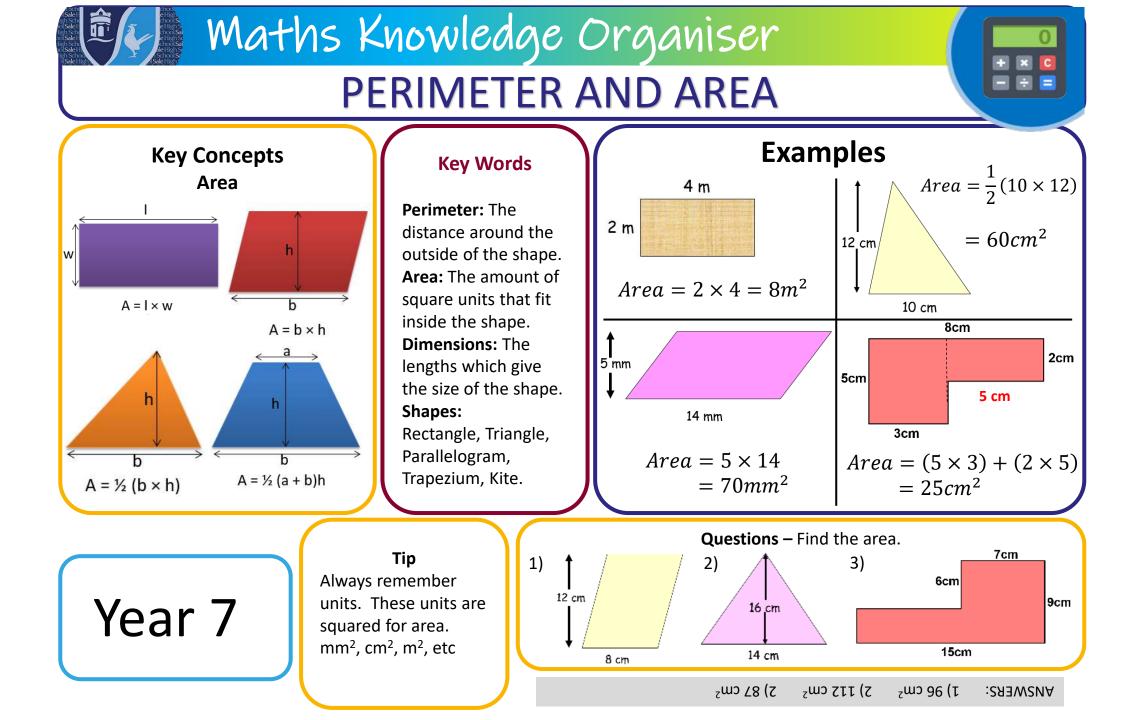
How are Christians influenced by the Bible today?

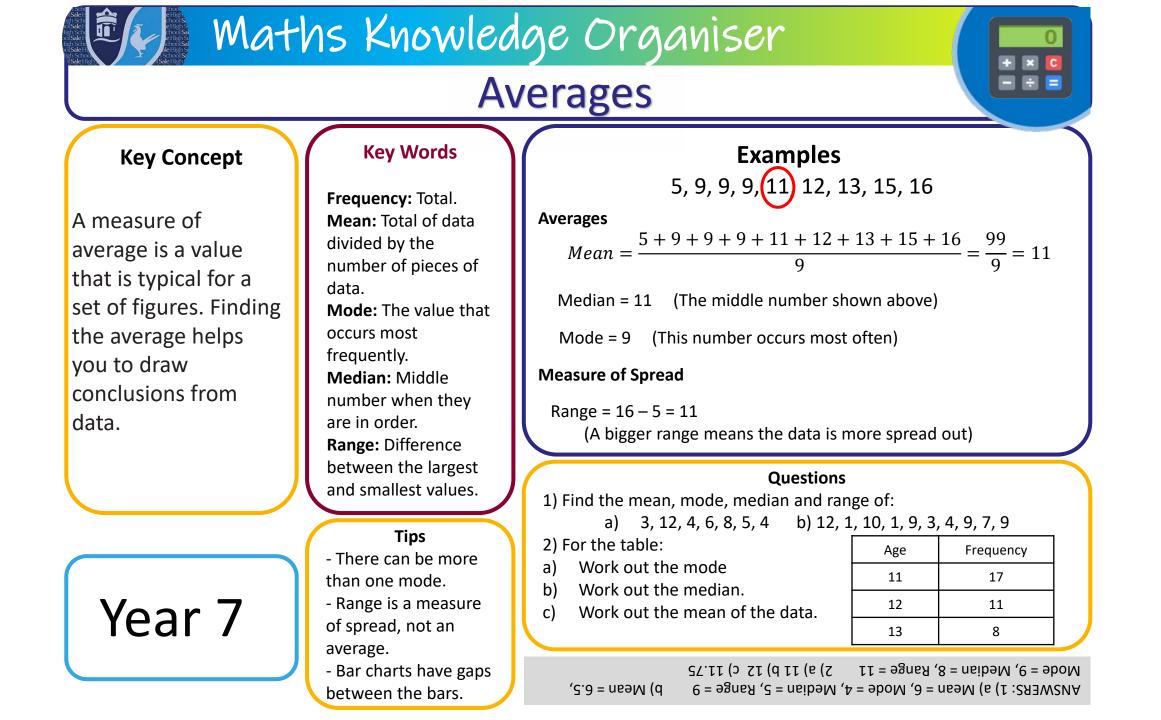
The Bible is seen as a guidebook for life where Christians can turn to for advice, guidance and reassurance. The teachings of Jesus vastly influence a way a Christian will treat others. Many will seek to help those in need in their local community by hosting <u>coffee mornings</u>, volunteering or through working with charities such as <u>salvation army</u> or the <u>Trussell Trust</u>.

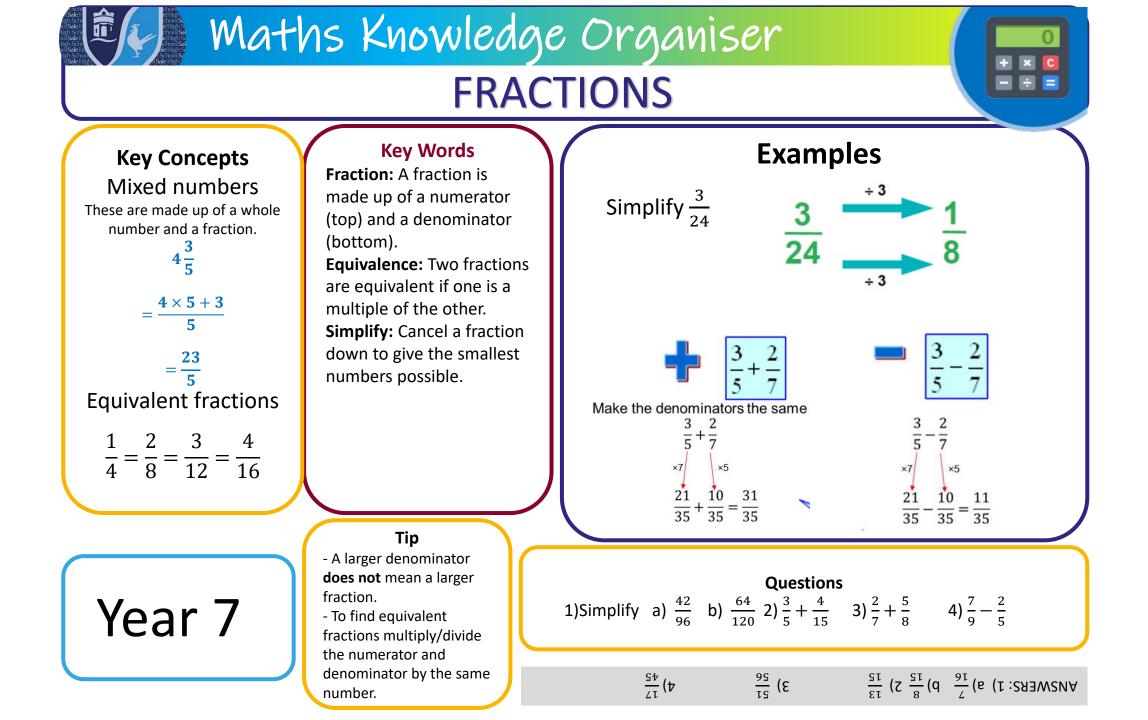
Evangelical Christians believe that they can help someone get to heaven if they convert others to Christianity. This is because Jesus said *"I am the light of the world. Whoever follows me will not walk in darkness, but will have the light of life."*





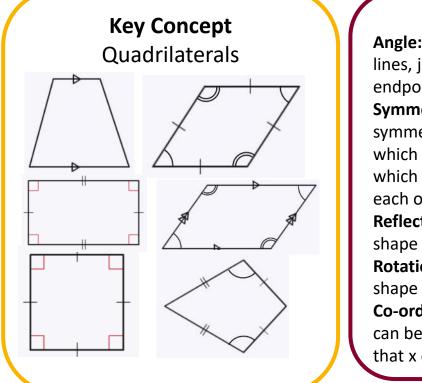






Maths Knowledge Organiser Geometry





Year 7

Key Words

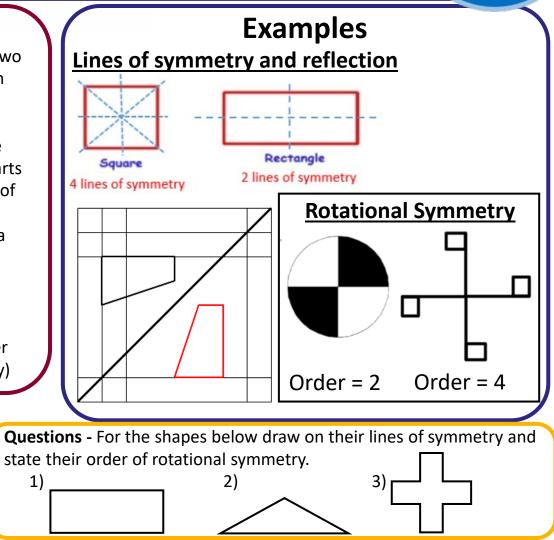
Angle: This is formed by two lines, joined by a common endpoint.

Symmetry: A shape has symmetry if there is a line which forms two equal parts which are a mirror image of each other. Reflection: This is where a

shape is flipped.
Rotation: This is where a shape is turned.
Co-ordinates: points that can be plotted. Remember that x comes before y (x, y)

Тір

The smallest the order of rotational symmetry can be, is 1.
To see if a line of symmetry works fold along the line and see if the both halves lie exactly on top of each other.

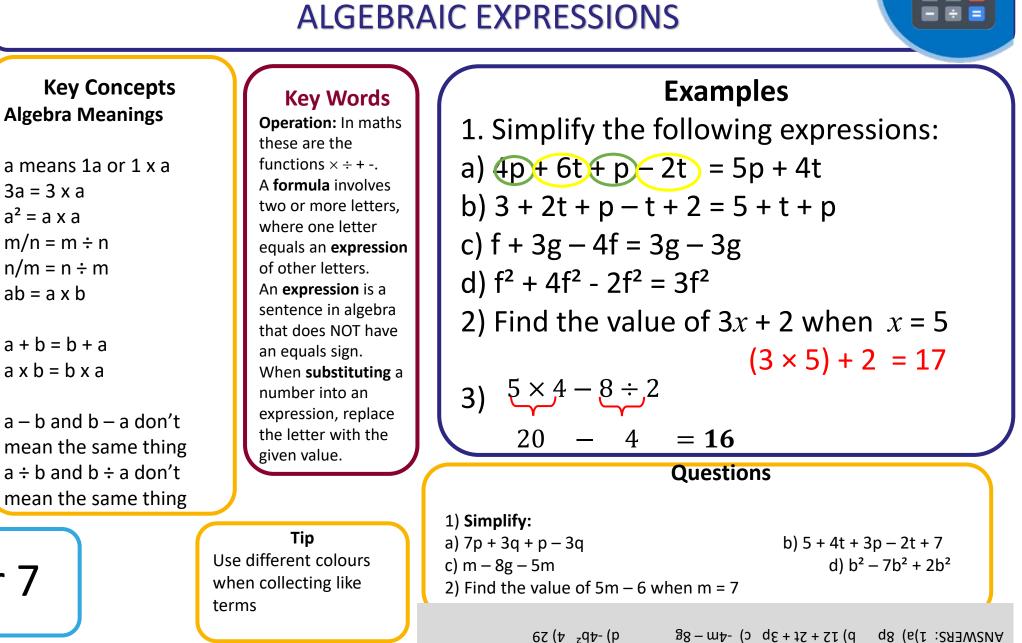


lines of symmetry, order = 4.

ANSWERS: 1) 2 lines of symmetry, order = 2 2) 1 line of symmetry, order = 1 3) 4

Maths Knowledge Organiser ALGEBRAIC EXPRESSIONS

Year 7





MFL Knowledge Organiser Spring 1 Animals and descriptions



A 👷	AVOIR	
J'	ai	I have
Tu	as	You have
il/elle	а	He/she has
nous	avons	We have
vous	avez	You all have
lls/elles	ont	They have

⁸ être		
Je	suis	l am
Tu	es	You are
il/elle	est	He/she is
nous	sommes	We are
vous	êtes	You all are
Ils/elles	sont	They are

C	; Opinions & Pronouns		
	 J'adore J'aime Je n'aime pas Je déteste Je préfère Je pense que 	© Ça m'intéresse Ça m'amuse ⊗ Ça m'énerve Ça m'ennuie	
D	aussi	es also	
Т			
	mais	but of the second	
	Cependant	however	
	que / qui	which	
	où	where	
	Parce que /car	because	

Complexity Je n'ai pas de.. - I do not have J'ai besoin de – I need

Je veux avoir _ I want to have Je voudrais avoir – I would love to have



F	Adjectives			
	English Fr			
	Exciting	Passionnant (e)		
Great		Génial (e)		
	Boring	Ennuyeux / se		
	Annoying	Barbant (e)		
	Creative	Créatif /ve		
	Grumpy	Grincheux /se		
	Relaxing	Relaxant (e)		
	Active	Actif /ve		
	Interesting	Intéressant (e)		
	Fun	Amusant (e)		
	Shy	Timide		
	Noisy	Bruyant (e)		
	Chatty	Bavard (e)		



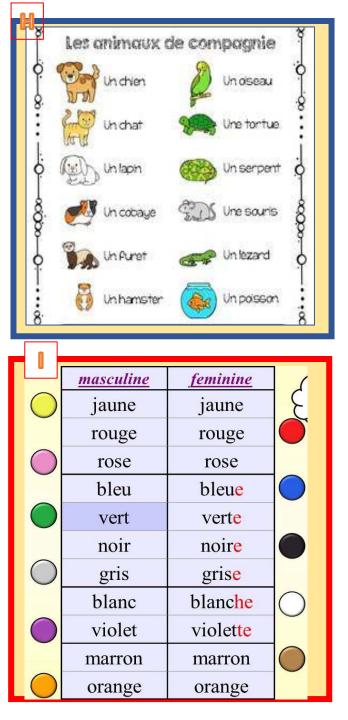
J'ai un frère barbant

Take **AVOW**

J'ai une sœur barbante

J'ai deux chiens barbants

J'ai deux tortues barbantes





The parts in bold are the **endings** and they must always agree with the pronouns, just like in English (we wouldn't say 'I does' and we wouldn't say 'He do'

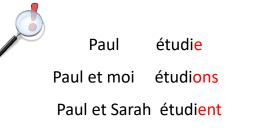


MFL Knowledge Organiser Spring 1 Animals and descriptions



Introducing (2) regular verb conjugation. Etudier = to study

Ij'étudieYoutu étudiesHe/sheil/elle/on étudieWenous étudionsYou allVous étudiezTheyils/elles étudient

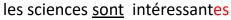


C	Opinions &	Pronouns
	 J'adore J'aime Je n'aime pas Je déteste Je préfère Je pense que je trouve que 	© Ça m'intéresse Ça m'amuse © Ça m'énerve Ça m'ennuie Ça me stresse
D	Connectiv	ies -
	Aussi /en plus	also /futthermote
	Mais/ Cependant	but / however
	Mais/ Cependant que / qui	but / however which
	•	
	que / qui	which
	que / qui où	which where
E	que / qui où Parce que /car	which where because so

Je dois étudier – I must study

Je veux étudier _ I want to study Je voudrais étudier – I would like to study

	Adjectives		
	English	Fr	
	Exciting	Passionnant (e)	
	Great	Génial (e)	
	Creative	Créatif /ve	
	Easy	Facile	
	Relaxing	Relaxant (e)	
	Active	Actif /ve	
	Interesting	Intéressant (e)	
	Fun	Amusant (e)	
	Nice	sympa	
	funny	Marrant(e)	
	Boring	Ennuyeux / se	
	Annoying	Barbant (e)	
	Difficult	difficile	
	Strict	Sévère	
C	Le français <u>est</u> intére	essant Take AVOW	
4	La musique <u>est</u> intéressante		
	Les profs <u>sont</u> intéressants		



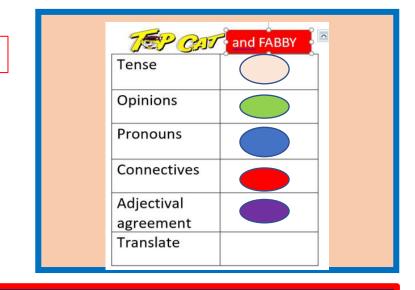
	\		
<u>LES MATIÈRES</u> = SCHOOL SUBJECTS			
J'etudie	I study	21 10.22	
le dessin	Art	les maths	Maths
le théâtre	Drama	les sciences	Science
l'espagnol	Spanish	(la biologie	Biology
le français	French	la chemie	Chemistry
l'anglais	English	la physique)	Physics
l'EPS (l'éduaction physique et sportive) P.E.			
la geographie	Geography	l'histoire-géo	Hist-geo
l'histoire	History	l'éduaction re	ligieuse R.E.

la tecnologie Technology

Music la musique J Introducing (3) regular -er verb anna a il y athere is/ are conjugation pattern E est is S sont -are je nous ons e A а (he.she.it)has tu es vous ez (\mathbf{O}) ont il / elle ils/elles ent е -(they)have

I.T.

l'informatique



Introducing TOPCAT

K

J'étudie le français parce que je pense que le prof est amusant et sympa.

Mais je n'aime pas le dessin parce que c'est difficile et aussi m'énerve.

J'aime beaucoup la musique parce que je trouve que c'est super et le prof est sympa et m'amuse.

7I Energy

igh Sch ol **Sale**

1. Energy from Food			
Energy Needed to live, helps us to grow and repair our bodies, move an keep warm. Food is a source of energy.			
Joule	A unit for measuring energy.		
Kilojoule	1000J = 1kJ		
Diet	The food that a person eats.		
Weight	The amount of force with which gravity pulls things- measured in Newtons (N).		
Balanced Diet	Eating a variety of foods to provide all the things that the body needs.		
Nutrients	Substances needed from food.		

2. Energy Stores and Transfers		
Transferred	When energy is moved from	
	one store into another.	
Forces	A push, pull or twist and a	
	type of energy transfer.	
Electricity	A way of transferring energy	
Licentry	through wires.	
	When energy is captured	
Stored	within an object and can be	
Storeu	moved to another store by	
	energy transfers.	
Chemical	Energy stored in chemicals	
	(such as food, fuel and	
Energy	batteries).	
Kinetic	Energy stored in moving	
Energy	things.	
Thermal	Energy stored in hot objects.	
Energy	Energy stored in not objects.	
Strain	Energy stored in stretched or	
	squashed objects. Also called	
Energy	elastic potential energy.	
Gravitational	Energy stored in objects in	
Potential	high places that can fall	
Energy	down.	

•	Energy stored inside
Nuclear	materials (also called atomic
Energy	energy).
	The idea that energy can
Law of	never he created or
Conservation	destroyed, only transferred
of Energy	from one store to another.
	3. Fuels
	A substance that contains a
Fuel	store of chemical or nuclear
	energy that can easily be
	transferred.
Nuclear	Used in nuclear power
Fuels	stations to generate
-	electricity.
Uranium	A radioactive metal that can
	be used as a nuclear fuel.
Generate	To produce electricity.
	A fuel formed from the dead
Fossil Fuels	remains of organisms over
	millions of years.
Coal	A fossil fuel made from the
	remains of plants.
	A fossil fuel made from the
Oil	remains of microscopic dead
	plants and animals that lived
	in the sea.
	A fossil fuel made from the
Natural Gas	remains of microscopic dead
Natural Gas	plants and animals that lived
	in the sea.
Non-	An energy resource that will
	run out because we cannot
Renewable	renew our supplies of it.
	An energy resource that will
Renewable	never run out (such as solar
	power)
Disfusi-	A fuel made from plants or
Biofuels	animal droppings.
	Can be used as a fuel by
Undesses	combining with oxygen from
Hydrogen	combining with oxygen north

4. Other Energy Resources		
Solar Power	Generating electricity using	
Solar Power	energy from the Sun.	
	Flat plats that use energy	
Solar Panel	from the Sun to heat	
	water.	
	Flat panels that use energy	
Solar Cell	transferred by light from	
Solar Cell	the Sun to produce	
	electricity.	
	A large power station using	
Solar Power	the Sun to heat water to	
Station	make steam which then	
	generates electricity.	
	Generates electricity using	
Wind Turbine	energy transferred from	
	the wind.	
Hudroolostria	Electricity generated by	
Hydroelectric	moving water turning	
Power	turbines and generators.	
Castharmal	Electricity generated using	
Geothermal	heat from rocks	
Power	underground.	
Dhotocuthe-!-	Carbon dioxide + water →	
Photosynthesis	glucose + oxygen	
. .	•	
5. L	Jsing Resources	
Freed Freed	Cheap compared to the	

5. Using Resources		
Fossil Fuel Advantages	Cheap compared to the others and convenient to use in cars/vehicles.	
Fossil Fuel Disadvantages	Non-renewable Releases polluting gases	
Nuclear Advantages	No polluting gases generated.	
Nuclear Disadvantages	Non-renewable Very expensive Dangerous waste materials	
Renewable Advantages	No polluting gases Renewable	

Renewable Disadvantag

Climate Change

Efficiency

Using Less **Fossil Fuels**

	Most not available all the
	time and only available in
ges	specific locations.
	Fossil fuels are making the
	earth warmer due to the
	carbon dioxide given off
	when they are burnt.
	How much of the energy
	transferred by a machine is
	useful.
	Using efficient appliances,
	insulating homes, public
	transport/walking/cycling

Work through memorising the information – highlight each definition once you know it. When you have completed your highlighting completed the gap fill and activities on the second sheet to support your retrieval practice.

7K Forces

1. Different Forces		
Force A push or a pull.		
Contact Forces	The thing providing the force needs to touch an object to affect it. Friction, air resistance, water resistance, upthrust	
Upthrust	The force that makes things float.	
Air	A force acting on objects	
Resistance	moving through the air.	
Water	A force acting on objects	
Resistance	moving through water.	
Non-Contact	Forces that can affect an object from a distance.	
Forces	Gravity, static electricity,	
	magnetism	
	A force that pulls objects	
Gravity	downwards.	
Static Electricity	A force that attracts things.	
Magnetism	A force that attracts objects made of iron, nickel or cobalt.	
Newton (N)	The units for measuring forces.	
Weight	The force of gravity pulling on something- measured in Newtons (N)	
Mass	The amount of matter that makes up something- measured in kilograms (kg)	
Representing Forces	We draw arrows on force diagrams to show the direction of a force; a bigger arrow shows a bigger force.	

Force Diagram backwards forwards force from water force from resistance legs gravity

	2. Springs
Stretched	Made longer
Compressed	Made shorter
Spring	Made from coils of wire,
	The difference between
Extension	the original length and the stretched length.
	An object that returns to
Elastic	its original length when the
	force is removed.
	Hang a spring from a clamp
Investigating	and measure its length.
Extension	Add increasing numbers of
Extension	masses and measure the
	extension each time.
Hooke's Law	Extension is proportional
HOUKE'S Law	to the force applied.
	A relationship between
Proportional	two variables where if one
roportional	doubles, the other will
	double.
Limit of	The point at which the
Proportionality	extension and force are no
reportionality	longer proportional.
	The point at which the
Elastic Limit	spring cannot return to its
	original length.
Force Meter	Springs are used inside to
I UICE MIELEI	measure the force.

How Extens Depends or Force	.e limit of		
	3. Friction		
Friction	Force between two touching objects.		
Increasing Friction	Using certain materials like rubber (used on racing cars to stop them from sliding off the road).		
Reducing Friction	Make surfaces smooth or by using lubricants such as oil or grease.		
Lubrication	Adding a lubricant		
Friction Damage	Friction can wear things away like brake pads on a bike. Friction between parts of a car can cause it to overheat and stop working.		
	4. Pressure		
Pressure	The amount of force pushing on a certain area.		
The Size of Pressure	Depends upon the size of the force and the size of the area it is pushing on.		
Pressure in Sport	Snowshoes spread out weight, reduce pressure and stop people sinking into soft snow.		
	It is easier to cut something		

with a sharp knife because it

force is concentrated over a

force

area

has a smaller edge so the

pressure =

smaller area.

Pressure in

Everyday

Pressure

formula

Life

Pascal (Pa)	pressure. 1Pa = 1N
5. Balance	ed and Ur
Balanced Forces	Two for acting u opposit Balance change moving
Unbalanced Forces	When of acting u larger t acting of unbalar

Stationary

Force Diagram



Work through memorising the information - highlight each definition once you know it. When you have completed your highlighting completed the gap fill and activities on the second sheet to support your retrieval practice.

The units for measuring l/m³

nbalanced Forces

rces of the same size upon an object in te directions. ed forces will not the speed of a g object. one of the forces upon an object is than the other. If on a moving object nced forces will change its speed. Not moving- stationary objects have balanced forces acting on them.

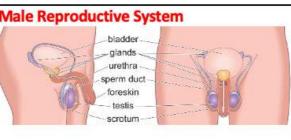


7B Sexual Reproduction in Animals

1. Anima	al Sexual Reproduction
Offspring	The new organisms produced by reproduction.
Sexual Reproduction	Reproduction that needs two parents to produce offspring.
Gametes	Sex cells
Sperm Egg	Gamete that males make Gamete that females make
Fertilisation	Sperm enters an egg cell and nuclei fuse forming a fertilised egg cell.
External Fertilisation	The sperm and egg cell meet outside of the body. e.g. fish
Internal Fertilisation	The sperm and egg cell meet inside the body.
Using External Fertilisation	Large numbers of eggs are produced because many get washed away. The parents don't look after their young.
Using Internal Fertilisation	Fewer egg cells produced because sperm is more likely to reach egg. The parents usually look after their young.

2. Reproductive Organs Where sperm cells are made. Testes Bag of skin containing the Scrotum testes. Sperm travels through here Sperm Ducts after leaving the testes. Fluids are added to the Glands sperm- it is now called

semen. The tube the semen leaves Urethra the body through.



Ovary	Where the egg cells develop
	and are released from.
Oviduct	Tube lined with cilia (tiny
A Carlos and	hairs).
Uterus	Where the baby will develop
oterus	if the egg is fertilised.
Cervix	Ring of muscle between
CEIVIX	uterus and vagina.
Vagina	Part that leads from the
Vagina	cervix to the outside.
Female Repro	oductive System
C C	oviduct ovary- uterus cervix bladder urethra vagina
100	When males start to produce
Puberty	sperm cells and egg cells in
	female start to mature.
Sperm Cell A	daptations
shape a	
Egg	cell surface membrane
Cell	A jelly coat makes sure that only one
A REAL PROPERTY OF A REAL PROPER	sperm cell can enter.
Adaptations	Charles Charles

The cytoplasm – contains a store of food to provide energy for the fertilised egg cell.

nucleus

Sexual	The erect penis is inserted
Intercourse	into the vagina.
Ejaculation	Semen is pumped out of the
Ljaculation	urethra.
Route the	Vagina → sucked up through
sperm take	cervix \rightarrow uterus \rightarrow oviduct \rightarrow
sperm take	meets egg cell
	If fertilisation occurs the cell
	starts to divide forming an
Implantatio	embryo which will then sink
	into the uterus lining. The
	woman is now pregnant.
Amniotic	Watery fluid to protect
Fluid	growing embryo / foetus.
Amnion	Bag containing the amniotic
Amnion	fluid.
	Allows oxygen, food and
	water to be passed from
	mother's blood into embryo's
Placenta	blood. Waste materials (like
	carbon dioxide) pass from
	embryo's blood into mother's
	blood.
Umbilical	Carries the embryo's blood to
Cord	and from the placenta.
4	Gestation and Birth
Gestation	The time from fertilisation until
Period	birth.
renou	When an embryo develops a
Foetus	full set of organs we call it a
Toctas	foetus (around 8 weeks).
Ultrasound	Produce images of foetus to
Scans	check for problems.
	Alcohol, drugs, cigarette smoke
Harm to	and viruses can pass through
Baby	placenta and harm foetus.
Premature	
Labour	The act of giving birth.
Labour	The act of giving birth.

3. Becoming Pregnant

	1. contract
	begins to
Stance of	2. amnion
Stages of Giving	fluid leav
	3. cervix at
Birth	contract
	through.
	4. Umbilica
Afterbirth	The placent
Afterbirth	the vagina-
	Produces m
Mammary	contains nu
Glands	antibodies t
CHARTER ST.	disease
-	
	5. Growi
Sex	Released

	and the second s
Sex	Released
Hormones	ovaries- s
Changes to	Voice dee
Boys During	widen, ha
Puberty	penis grow
Changes to	Breasts de
Girls During	hips wide
Puberty	release eg
	Days 1-5:
	from body
	Days 6-14
Menstrual	mature an
Cycle	around da
5.	Days 14+:
	towards u
	fertilised

Work through memorising the information – highlight each definition once you know it. When you have completed your highlighting completed the gap fill and activities on the second sheet to support your retrieval practice.

tions start and cervix o widen.

breaks and amniotic ves vagina.

t 10cm, stronger tions pushes baby

al cord cut.

ta is passed out of

end of labour.

nilk for babies-

trients and

to protect from

ing Up

by brain, tests & start puberty. epens, shoulders air grows, testes/ w, sperm produced. levelop, hair grows, en, ovaries start to ggs.

uterus lining lost ly (menstruation) 4: egg cell starts to nd is released ay 14 (ovulation) : egg cell swept uterus, if not cycle starts again.



7D Ecosystems		
	1. Variation	
Habitat	The place where an	
Tabitat	organism lives.	
Variation	The difference between	
Variation	organisms.	
	Type of variation where the	
Continuous	measurement can be any	
continuous	value in a given range.	
	e.g. height, mass	
	Type of variation where the	
Discontinuous	measurement falls into	
Discontinuou	certain categories.	
	e.g. eye colour, blood group	
Offspring	The new organism produced	
Onspring	by reproduction.	
	Group of organisms that can	
Species	reproduce to produce	
Species	offspring that can also	
-	reproduce.	
	The offspring of two	
Hybrid	different species. They	
cannot reproduce.		
	2. Adaptations	
Environment	The conditions in a habitat.	
	Features that help an	
Adaptations	organism to survive in the	
	environment where it lives.	
	 Thick fur to keep warm 	
	 small ears to stop heat 	
Polar Bear	loss	
Adaptations	 white fur for camouflage 	
Adaptations	 rough soles to grip ice 	
	 large feed to spread out 	
	weight / swimming	
	 Stem stores water 	
Cactus	 roots cover large area to 	
	absorb water	
Adaptations	 no leaves to stop water 	
	loss	

	 large ears to allow heat to escape 	
Jack Rabbit	 large hind legs to increase 	
Adaptations	running speed	
	 gets all its water from 	
	food, doesn't drink	
Community	All the animals and plants	
community	that live in a habitat.	
	The community and all the	
Ecosystem	physical environmental	
	factors together.	
Inherited	Variation between features	
Variation	caused by an organism's DNA	
Inherited	Gametes contain different	
Variation	instructions for features. A	
Between	different sperm and egg	
Same	produce each offspring, so	
Species	each has different features.	
Identical	Identical because they	
Twins	develop from one fertilised	
Constant and	egg cell.	
3. Effect	ts of the Environment	
	Variation caused by	
Environmenta	a state of the second of the second sec	
Environmenta Variation	environmental factors.	
Environmenta Variation	environmental factors. e.g. hairstyle, accent	
Variation	environmental factors. e.g. hairstyle, accent Environmental changes	
Variation Daily Changes	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day.	
Variation	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes	
Variation Daily Changes	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year.	
Variation Daily Changes Seasonal Changes	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active	
Variation Daily Changes Seasonal Changes Nocturnal	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night.	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly.	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss.	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations Deciduous	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss. Trees with tougher leaves	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss. Trees with tougher leaves that don't lose much water	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations Deciduous	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss. Trees with tougher leaves that don't lose much water so they keep them all year.	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations Deciduous Evergreen	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss. Trees with tougher leaves that don't lose much water so they keep them all year. Organisms become inactive	
Variation Daily Changes Seasonal Changes Nocturnal Nocturnal Animal Adaptations Deciduous	environmental factors. <i>e.g. hairstyle, accent</i> Environmental changes during the day. Environmental changes during the year. Animals that are only active at night. Excellent eyesight Nocturnal owls have superb hearing as well and can fly. Trees that lose their leaves in winter to stop water loss. Trees with tougher leaves that don't lose much water so they keep them all year.	

Migration	Birds fly to warmer places for winter to find food.
4. Effects on the Environment	
Resources	What an organism needs to survive and grow- oxygen, food, water, etc. for animals.
Population	The numbers of a specific organism.
Food Chain	Represents what eats what in a habitat Grass \rightarrow hare \rightarrow lynx
Competition	Organisms compete over the resources that they need.
Food Web	Formed by joining together all food chains in an ecosystem.
Food Web Exar	nple
Food Web Exar great horner (a predator that is not prey)	
Great horned Top predator (a predator that is not prey) Carnivore (consumer and predator) goshawk	t-owl wolverine wolf
great horned Top predator (a predator that is not prey) Carnivore (consumer and	s-owl wolverine wolf
Carnivore (consumer and predator) (consumer and predator) Herbivore, (eats other) great horned goshawk vole	volverine wolf
reat horned Top predator (a predator that is not prey) Carnivore (consumer and predator) Herbivore, (consumer (eats other organisms) Producer (makes its own food) grass	volverine wolf
reat horned Top predator (a predator that is not prey) Carnivore (consumer and predator) Herbivore, (consumer (eats other organisms) Producer (makes its own food) grass	bowl wolverine wolf wolf ynx ynx thrush beetle grey willow aspen Organisms in an ecosystem all depend on

5. Transfers in Food Chains		
Foo	d Chain	Represent energy passed
Arro	ws	between organisms.

nergy Flow	Energy is along a f being re for move food ren
yramid of lumbers	Diagram each org of a food
esticides	Poison t
ests	Organisr problem
	problem
ersistent	Poisons down in
ersistent oisons in a ood Chain	Poisons

Work through memorising the information – highlight each definition once you know it. When you have completed your highlighting completed the gap fill and activities on the second sheet to support your retrieval practice.

is lost at each stage food chain due to eleased by respiration vement etc. and some mains undigested. m showing number of rganism at each stage od chain.



that kills pests.

ms that cause

ns.

that are not broken

n nature.

get more

trated the further

food chain.

ent pesticide used in that caused bird shells ome weak and break

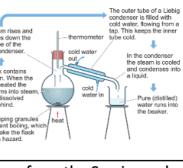
easily. Banned in 1984.



7E Mixt	ures and Separation		The total mass of a solution is		Used to separate		Whe
		Conservation	the same as the mass of the	Chromatograp	y substances dissolved in a	Condenses	from
	1. Mixtures	of Mass	dissolved substance plus the		mixture.		liqui
	Two or more substances	01 141835	mass of the liquid at the		A concentrated dot of a		A sir
Aisture			start.		mixtures is placed at the		not l
	jumbled together but not joined together.		A solution that contains so	Paper Chromatography	bottom of special	Pure	(Pur
	A mixture of a solid and liquid,	Saturated	much dissolved solute that		chromatography paper.		wate
Suspension	where the solid bits are heavy		no more solute can dissolve		The bottom of the paper		solu
	enough to settle out if the		in it.		is dipped into a solvent		
	mixture is left to stand.	Solubility	The amount of a substance		(such as water). As the		The steam
Colloid	A mixture of a solid, liquid or		that dissolves in a particular		solvent moves up the		then goes inner tube Liebig con
	gas in a solid, liquid or gas		solvent at a particular		paper is carries the	Distillation	The flask a solution.
	where the substances do not		temperature to make a		dissolved substances.	Apparatus	flask is he water turn leaving dis solids beh
	settle out if left to stand.		saturated solution.	Concentrated	A solution that contains a		Anti-bump
Dispersed	Spread out without settling		3. Evaporation		large amount of solute		stop violer could shall and be a h
	out, such as the bits in a	Evaporation	When a liquid changes into a		dissolved in a small		-
	colloid.		gas. Can be used to separate		amount of solvent.		Ener
-	Cannot be seen through-		a liquid from the solid		The results of	Color Ctill	to e
Upaque	colloids are opaque / cloudy.		dissolved in it.		chromatography such as	Solar Still	wate
	When a substance has	Sodium	The scientific name for table	Chromotogram	a dried piece of paper for		cond
Solution	dissolved in a liquid.	Chloride	salt that we use on our food.	Chromatogram	paper chromatography showing when the		pure
	Light can pass through and it		When sodium chloride is		dissolved solids have		
Transparent	can be seen through- solutions		found in thick layers of rock		been separated.		
-	are transparent.		underground.		Different substances in a	Work thr	ough
	Something through which a		Can be dug up or mined.		mixture are carried at	informat	ion –
Filter	liquid is passed to remove		Water can be pumped into	How	different speeds,	definitior	n once
	suspended pieces of solid.		layers of salt underground,		y depending on how	you have	com
	2. Colutions	Extracting	dissolving the sodium	works	soluble they are, which	highlight	ina co
	2. Solutions	Rock Salt	chloride which is then		separates them out from	and activ	
C - L L	The liquid in which a	Boiling Boiling Point	pumped to the surface and		each other.		
Solvent	substance dissolves to make		heated to evaporate the	heated to evaporate the	· · · · · · · · · · · · · · · · · · ·	support y	ourr
	a solution.				. Distillation		
C - la te	The substance that has		chloride.		eparating water from the		
Solute	dissolved in a liquid to make		When there is liquid turning		alts in salty/sea water to		
Dissolve	a solution.		into a gas in all parts of a		roduce fresh drinking water.		
	When a substance breaks up		liquid- creates bubbles of gas	Distillation liqui	he process of separating a		
	into such tiny pieces in a liquid that it can no longer be		in the liquid.		quid from a mixture by		
	seen and forms a solution.		The temperature at which a		vaporating the liquid and		
Soluble	Describes a substance that		liquid boils.	1 1	nen condensing it to be		
		4	Chromatography		ollected.		
	can dissolve in a liquid.		emoniatography	Steam W	/ater as a gas.		

en a substance changes n its gas state into its id state.

ngle substance that does have anything else in it. re water only contains ter and no dissolved utes)



rgy from the Sun is used evaporate salty/dirty er which is then densed, forming e/clean water.

n memorising the highlight each e you know it. When pleted your completed the gap fill on the second sheet to retrieval practice.



Neutral

A substance that is neither

7F Acids and Alkalis

-	1. Hazards		
	Something that could cause		
Hazard	harm.		
22923	The chance that a hazard will		
Risk	cause harm.		
	Internationally agreed symbols		
Hazard	epresenting the type of risk		
Symbols	from using a substance.		
~	Dangerous to Environment		
¥2>	Can cause long term damage to		
\bigtriangledown	animal and plant life.		
	Тохіс		
(33%)	Poisonous and can cause death		
\sim	if taken into the body.		
\wedge	Corrosive		
	Attacks certain substances like		
\sim	metals, stonework & skin.		
11	Explosive		
	Heating may cause an explosion.		
Ň	Flammable		
(M)	These substances catch fire		
V	easily.		
^	Caution		
	similar to toxic/corrosive but		
\mathbf{V}	less serious- may cause skin		
	irritation		
NO-COLOR DATA	Dangerous substances are		
Diluted	mixed with water to make them		
	less dangerous.		
	2. Indicators		
	A substance that changes		
Indicator	colour in solutions of		
	different acidity/alkalinity.		
<u>.</u>	······································		

An indicator made from a

Turns litmus indicator red.

Turns litmus indicator blue.

type of lichen.

Litmus

Acid Alkali

Neutral	acidic or alkaline.				
Red Cabbage	Can be used as an indicator.				
3. Acidity and Alkalinity					
	A scale measuring acidity and				
pH Scale	alkalinity in numbers.				
The pH Scale					
	stomach acid				
m	ost acidic				
	vinegar				
	fizzy drinks				
4	rainwater				
5	80				
6	pure water				
7					
8	sea water				
	soap				
9	Soup				
	toothpaste				
11					
12	washing powder				
13	hair dye				
14	mail dye				
mo	st alkaline oven cleaner 🧔				
Acid	pH lower than 7- the lower				
Neutral	the number the more acidic. pH of 7				
	pH higher than 7- the higher				
Alkali	the number the more				
	alkaline.				
Universal	Indicator that gives a range				
Indicator	of colours depending on the				
	pH. Rainwater more acidic than				
Acid Rain	usual due to pollution.				
2	I. Neutralisation				

	A reaction where an acid			
Neutralisatio	and alkali are mixed			
Neuri diisatio	together forming a neutral			
	substance.			
Chemical	A change in which one or			
	more new substance is			
Reaction	formed.			
Word	Used to model chemical			
Equation	reactions.			
	The starting substances-			
Reactants	written on left of word			
	equation.			
	The new substances made-			
Products	written on right of word			
	equation.			
Neutralisatio	n General Word Equation			
Acid + alkali -				
Neutralisatio	n Word Equation Example			
Hydrochloric acid + sodium hydroxide →				
sodium chloride + water				
	Formed when acids and			
Calka	alkalis react. Different acids			
Salts	and alkalis will form			
	different salts.			
Sodium	The chemical name for			
Chloride	common/table salt.			
5 Nout	tralisation in Daily Life			
J. Neul	Any substance that			
Raca				
Base	neutralises an acid forming a			
Alkali	alt and water.			
AIKdii	A soluble base			
Antacids	Remedy for indigestion that			
A man aird 14/	neutralise the stomach acid			
	Equation Example			
	ydroxide + hydrochloric acid			
→ magnesium chloride + water				

2 - 13 - 1	Contains bases that		
Taathaasta	neutralise acids in your		
Toothpaste	mouth from food that you		
	eat.		

Bee Sting Remedy	A bee st be treat like bak
Wasp Sting Remedy	A wasp can be t acid like
Cleaning Metals	Acids clo metals u reactior
Waste Gase	Acidic w industri calcium neutrali

Work through memorising the information – highlight each definition once you know it. When you have completed your highlighting completed the gap fill and activities on the second sheet to support your retrieval practice.

sting, being acidic can ated with a weak alkali king soda. o sting, being alkali,

treated with a weak e vinegar.

lean the rust off

using a neutralisation n.

waste gases from

ies are sprayed with hydroxide to ise them.

Computer Science Knowledge Organiser

USING MEDIA: Gaining support for a cause

Different **application software** can be used for different purposes. It is important to think about what the task is and select the most **appropriate** one.

The **application software** chosen allows different formatting techniques to be used.

Formatting can be using tools like **bold**, *italic*, <u>underline</u>, changing colour, font style and size, alignment and many more.

Formatting can be used for many reasons. Including to make text easier to read, easier for the audience to use, highlight important information or attract attention.

It is important to select the appropriate formatting for the audience

Images play an important role when using software. It is important that **appropriate** images are used, ones that meet the requirements of the **audience** and the **purpose** of whatever is being created.



When researching and reading stories online you need to check that they are **reliable**, **trustworthy** and **credible**. Anyone can upload content so it is not always accurate.

 \cdot Check the source, find out which other sources $% \left({{{\mathbf{r}}_{i}}} \right)$ are reporting it

Check whether other sites are saying the same thing,

Don't trust all the stories and all pictures

 \cdot Check for facts not rumours

Check any citations or references



When you are researching a topic you will come across a lot of useful information. Once the reliability and accuracy has been checked you may decide to use the information. Check the law

Plagiarism using someone else's work or ideas and using them as if they were your own. This can be any type of work either printed or electronic.

Citation the audience where the information came from. Anything that is used needs to have citations or references to the original work. the audience details about the source so that they can see that the source is relevant and recognised so they can find the source themselves if they want to.



Copyright Law gives the creators of literary, dramatic, musical, artistic works, sound recordings, broadcasts, films and typographical arrangement of published editions, rights to control the ways in which their material may be used.

Creative Commons(CC) license is one type of copyright license. This allows the copyright owner to say exactly what other people can and can't do with or to their work.

They help copyright owners share their work while keeping the copyright. For example, a Creative Commons licence might allow other people to copy and distribute the copyright owner's work, if they give them credit.

Making sure the item being created is successful and actually does what it was intended to do is important.

Setting **success criteria** should be determined at the start of the project and can be revisited frequently.

The success criteria should be clear and easy to follow.

A **blog** is simply a regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.

Computer Science Knowledge Organiser

MODELLING DATA – EXCEL SPREADSHEETS

Data and information are not the same.

• Data: facts and figures in their raw form

· Information: data that has been given structure or meaning

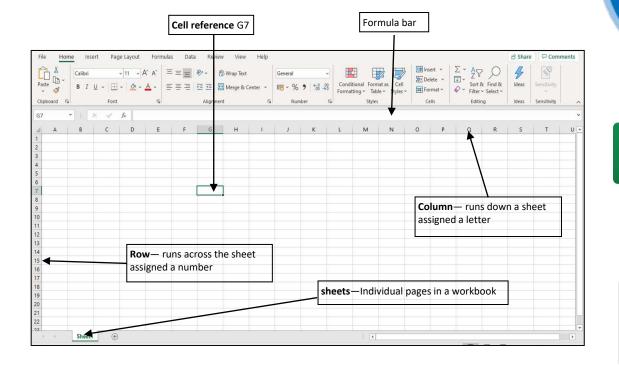
For example: Data—10, 2107, 18 Information—Time 10am, date 21st July, temperature 18°

The tool bar ribbon at the top allows for **formatting** of the data. Changing colour, size, style etc

There is a **sort** and **filter** tool that allows for data to be arranged in ways that is most useful for the user e.g. alphabetical, highest, lowest etc.

Conditional formatting can be set to allow the cell **formatting** to **automatically** change if certain criteria is met. For example a cell might turn red if there was a negative number

In order to complete calculations spreadsheets make use of **formula**. A formula uses the following basic symbols The = symbol is always at the start of a formula The + symbol is used for addition The - symbol is used for subtraction The * symbol is used for multiply The **/** symbol is used for divide Functions are also used which are predefined formula.



Common functions are SUM—adds a range of cells MAX—returns the largest value from selected cells MIN—returns the smallest value from selected cells AVERAGE—provides the arithmetic mean (average) of selected cells COUNTIF—counts the number of cells in a range that meet the given criteria IF— allows logical comparisons COUNTA—counts cells that are not empty

Data can be gathered from different sources • **Primary** source: collecting data yourself • **Secondary** source: someone else collects the data

Each box on a spreadsheet is called a **cell** and they hold data. Each **cell** has a unique **cell reference** to identify its location.





Computer Science Knowledge Organiser

NETWORKS

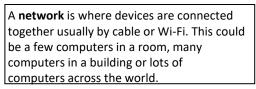
Key Words		
Bandwidth	Amount of data that can be moved from one point to another in a given time.	
Buffering	Data arriving slower that it is being processed	
Internet	A worldwide network of computers	
internet of Things (IoT)	Takes everyday 'things' and connects them to the Internet e.g. smart light bulb, fridge, heating etc.	
IP address	A unique address for every device on the internet	
Packet	Networks send/receive messages in units called packets	
Protocol	All methods of communication need rules in place in order to pass on the message successfully. These sets of rules are called 'protocols'	
Search Engine	A website that allows user to look up information on WWW e.g. Bing, Google etc.	
Web browser	Piece of software(code) used to view information on the Internet	
www	Part of the Internet that contains websites and webpages. NOT the same as the Internet.	











Wired and Wireless data transmission

A computer network can be either wired or wireless.

Wired networks send data along cables.
Wireless networks send data through the air using radio waves.

Bandwidth—Bandwidth is the amount of data that can be moved from one point to another in a given time. Higher bandwidth = more data per second

Bandwidth is measured in bits per second A bit is the smallest unit of data Data transfer rates are now so good that bandwidth is usually measured in Megabits per second (Mbps) 1Mb—1 million bits



There are a range of services provided by the internet. These include: • World Wide Web • Email • Online gaming • Instant messaging • Voice over IP (VoIP) – audio calls • Internet of Things (IoT) • Media streaming (e.g. watching Netflix online) The rules for each service are different. As a result, a different protocol is used.

HTTP—HyperText Transfer Protocol—used so that data can be understood when sent between web browsers and servers. HTTPS—is the secure version of HTTP where data sent is encrypted.

Network Hardware—physical equipment required to set up a network Hub—Connects a number of computers together. Ports allow cables to be plugged in from each connected computer. Router—Used to connect two separate networks together across the internet Sever—A powerful computer which provides services to a network Cable—Used to connect different devices together. They are often made up of a number of wires.

Computer Science Knowledge Organiser

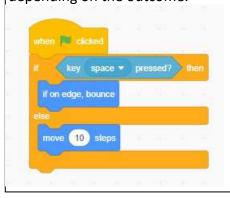
PROGRAMMING 1 - SCRATCH

Key Words		
Abstraction	Identify the important aspects to start with	
Algorithm	Precise sequence of instructions	
Computational thinking	Solving problems with or without a computer	
Debugging	Looking at where a program might have errors or can be improved	
Blocks	Scratch bricks that we can use to code algorithms	
Decomposition	Breaking down a problem into smaller parts	
Execute	A computer precisely runs through the instructions	
Iteration	Doing the same thing more than once	
Selection	Making choices	
Sequence	Running instructions in order	
Variable	Data being stored by the computer	

Sequence, selection and iteration are all processes. In order for computers to perform tasks there is more that is needed. For example a computer will take an **input** (this might be automatic or via human input) which the computer will then **process** and the **output** will be visible on the computer monitor. Scratch is a block based programming language. We can use predefined code drag and drop blocks to create a sequence of code. A computer inputs (this might be automatic or via human input), processes that input and then produces an output. as well as producing an output. For example when you use a keyboard and mouse, the mouse is used to input data into the computer to be processed and the output is visible on the computer monitor.

Variables are used to store data for use in a program. They can store lots of different types of data such as names and scores. So set variable score to equal 0 If I score a goal then increase variable by 1

A **selection** statement in programming allows a computer to **evaluate** an **expression** to **'true'** or **'false'** and then perform an action depending on the outcome.



Operators Comparison operators allow us to compare using <> + Logical operators use **AND**, **OR**, **NOT**

Count controlled iteration will execute the commands a set number of times. Example: "perform 200 star jumps"

Condition-controlled iteration will execute the commands until the condition you set is no longer being met. Example: "perform star jumps until 3pm"

We use algorithms in every day life . Example an algorithm to get to school, to make a cup of tea, to make a pizza, to order a takeaway. These are just precise sequences of instructions.





Computer Science Knowledge Organiser

ENOUIRY SKILLS- COLLABORATING RESPONSIBLY

- Cyberbullying is similar to bullying but tends to occur online. Cyberbullying
- can come in many forms. Some examples are:
- Threatening someone to make them feel scared
- Harassing someone by repeatedly sending them messages
- Ruining somebody's reputation

- Excluding someone from a group
- Stealing someone's identity and pretending to be them
- Publicly displaying private images or messages





Social media settings

Profiles should always be set to private

Profile images should not reveal locations

Profile images should not be easy to recognise; it is much better to use a picture of a pet or a cartoon character

· Don't reveal locations — this makes it easy to find out where you are.

· Making your date of birth public makes it easy for hackers to steal your personal information and set up fake accounts in your name.

· You should never reveal your phone number, email address, or home address on a public site

· You should never reveal your current location on social media

• Putting your full name, including a middle name, makes it easy for someone to steal your personal information. Always use a nickname or shortened version of your name

Do you really want to send that? Using technology appropriately, carefully Think before you click. and positively leads to positive digital It is easy to send comments from the other citizens. Digital citizenship to the responsible use of side of a screen.

technology by anyone who uses computers, the Internet and digital devices to engage with society on any level.

Secure **passwords**

mistakes are made.

It is not easy to then remove them.

Actions need to be considered before

No one should be able to guess/work out your password. Current government advice is to use 3 random words

Where to get help Talk to a trusted adult

https://www.ceop.police.uk/ https://www.childline.org.uk/

	Key Words		
Audience	The people you are communicating, presenting information to		
Catfishing	A person pretends to be someone they are not.		
Collaboration	Working effectively together		
Digital tattoo/Digital footprint	Online reputation that is permanent		
Email	A tool for online communication		
Hazards	Areas/items that could cause damage or injury		
Network	Devices are connected together usually by cable or Wi-Fi.		
Password	A way to ensure no one access your data or information		
Respect	Be mindful of how you are responding to others		
Secure	Making sure your online information is safe		

SOOP cyberbullying





Design & Technology Knowledge Organiser



Design Specification – Key Questions

AAestheticsWhat shape should the product be? What colour should be product be? What texture should the surface have?CCostWhat should the cost of the product be?CConsumerWho is the client or the user of the product? What features of other similar products should it have? Does the client have any specific needs or wants for the product?EEnvironmentShould the product be made from recycled materials? How should the product be disposed of when it is no longer needed?SSafetyWhat safety risks have to be considered? What safety standards must the product be? How much should the product be used for? How will it work? How should it be tested?MMaterials and ManufacturingWhat materials should the product be made from? Are there any limits on the sizes of the available materials? How many products need to be made? What will be used to make the product?			
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How many products need to be made?	Μ	Materials and	What materials should the product be made from?
How many products need to be made?		Manufacturing	
		8	materials?
Which processes should be used to make the product?			How many products need to be made?
			Which processes should be used to make the product?







Key Words and Definitions

Key Words and Definitions			
Refuse	Is the pr	oduct necessary?	
Rethink	Are there alternative materials or design		
	options that are more sustainable?		
Reduce	Can the product be made from fewer		
	material	s?	
	Can the	amount of unsustainable materials	
	be reduc	ced?	
Reuse	Can part	s of the product be reused in a	
	different	t product?	
Recycle	Can the	materials used be recycled? 💦	
	If the pro	oduct made from recycled 🛛 🔍 🖤	
	material	s?	
Repair	Can the product be repaired rather than		
	being thrown away if it breaks?		
Sustainability The level to which resources can			
-		be used without them becoming	
	unavailable in the future.		
Cark	on	Carbon foot print is the	
Foot		measurement/amount of	
1000		greenhouse gases produced in	
	the production of products.		
Renev	RenewableA source that is quickly replaced		
		by natural means and will not run	
	out.		
Non Ren	ewable	A source that cannot quickly be	
Energy Source		replaced and will eventually run	
		out.	





Design Process

0		
Primary Research	Data gathered first hand directly from the client	
Secondary Research	Data about the client that comes from a second hand source	
Product Analysis	Looking at a product in detail to understand more about it	
	using ACCESS FM	
Design Brief	A summary of the design opportunity	
Design Specification	A document that lists all the design criteria that the finished	
	product must meet.	
Design	Involves making a model of a design, which is then tested and	
Development	evaluated. A new, improved prototype is made and the proce	
	is repeated until the finished design meets all the needs and	
	wants of the client.	
Testing	To check that the product meets the design specification and	
-	the needs of the user.	
Evaluation	Where a designer reflects on the design of a product, looks at	
	what went well during testing and identifies ways that a	
	product could be improved.	





Renewable Energy Sources

A renewable energy source is quickly replaced by natural means and will not run out. Examples include wind power, solar power and hydroelectric power

Advantages	Disadvantages
It will not run out	Initial cost of installation is high
No carbon emissions	Some types of renewable energy are noisy
No fuel costs	Some types of renewable energy look ugly
No reliance on fossil fuels	Some types of renewable energy need
	constant sunlight or wind
	Unused electricity could be wasted
	Local habitat could be displaced

How can we reduce our impact on the environment?

- Use renewable materials rather than non-renewable means these can be replenished.
- If non-renewable materials are used such as plastic (oil) carbon emissions are given off resulting in global warming.
- Choosing biodegradable materials means they will break down naturally when the product comes to the end of its life. Non-biodegradable materials that have not been recycled will end up in the landfill or the sea damaging animals and habitats.
- Apply the **6Rs** to ensure minimal impact on the planet.







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Tools and Equipment

Tools and Equipment			
	Name	UseSafety point	
	Craft Knife	To cut paper, card and boards Safety Rules when using it Lock must be on Point downwards Use a cutting mat and safety ruler	Health & Safety Follow all verbal and written safety instructions, safety signs and floor markings.
	Cutting Mat	Placed under the material Safety It stops the knife from slipping	Wear an apron and remove any loose clothing or jewellery. Tie back long hair. Always walk – never run
and the second s	Metal Safety Ruler	Used when cutting the material with a craft knife. Safety Fingers stay in the indent so protected from the blade	Do not crowd other people Reports any accidents that occur immediately to the teacher. Do not leave anything on the
	Glue Gun	Used to join card and boards together Safety The glue and nozzle is hot Be careful not to use too much glue	floor Leave the workspace clean and tidy when you have finished.







Design & Technology Knowledge Organiser



Sources of Timber

Timber is made from trees that are chopped down and then cut into planks in a sawmill.

Timber can be a renewable resource if grown in wellmanaged forests. Responsible management includes planting trees as older trees are cut down. Timber grown this way can be identified by the Forest Stewardship Council FSC,







- Hardwood comes from deciduous trees, which are trees that shed their leaves each autumn. Hardwood trees can take 100 years to grow to a size where they can be harvested for timber.
- Softwood comes from coniferous trees. These are trees that keep their leaves or needles all year round, so they typically grow faster than hardwood trees. Softwood trees can reach a size where they can be harvested for timber in 25-30 years so more ecofriendly and cheaper.
- **Manufactured Boards** are made by gluing particles or pieces of wood together. These can be the waste materials from cutting of hardwood softwood or can be recycled woo.

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				Ju	2

Туре	Properties	Uses	
Oak	Very strong and hard	High quality furniture	
	Light brown colour		
Mahogany	Fairly strong and durable	High quality furniture	
	Pink to reddish brown colour		
Beech	Hard and tough, but easy to work with	Wooden toys, household items	
	Light brown with darker brown flecks	and furniture	
Ash	Tough and flexible	Tool handles, sports equipment	
	Light creamy brown colour		
Balsa	Soft – can be marked using finger	Modelling	
	Off white to tan colour		

Softwoods

Туре	Properties	Uses
Pine	Fairly strong, easy to work with	Interior structures in buildings
	Light brown or yellowish colour	and furniture
Spruce	Strong and hard, but low resistance to	Wooden aircraft frames
	decay.	
	Yellowish-white colour	

Manufactured Boards

Туре	Properties	Uses
Medium	Made from fine particles of timber,	Low cost furniture
Density	mixed with glue and compressed	
Fibreboard	together.	
	Smooth, even surface, easily machined	
Chipboard	Made from course chips of timber,	Kitchen worktops (covered with
	mixed with glue and compressed	melamine formaldehyde)
	together.	
	Rough surface with uneven texture	
Plywood	Made from layers of veneer glued	Furniture making
~	together with the layers grain	Marine plywood is used for
1-	structures at right angles to each other	building boats
	Layers are cut from timber then glued	
	together	



Hygiene and Safety



Personal hygiene-people are sources of contamination. Personal hygiene must be followed to prevent food poisoning such as:-Wash hands before and after handling foods; tie or cover hair; remove jewellery;

Cross Contamination-The transfer of bacteria into food: Food to food, Food handler to food, Equipment to food

High Risk foods are foods high in protein and moisture e.g. meat, dairy, cooked rice, gravy. Must be stored at a temperature below 5°C to prevent bacteria growth.

Preparing food safely:

Cleaning

Keep yourself and hands clean Use clean equipment Use clean dish clothes and tea towels

Cooking

Cook raw foods until the core is 75C, check with a temperature probe.

Reheat foods to 75C

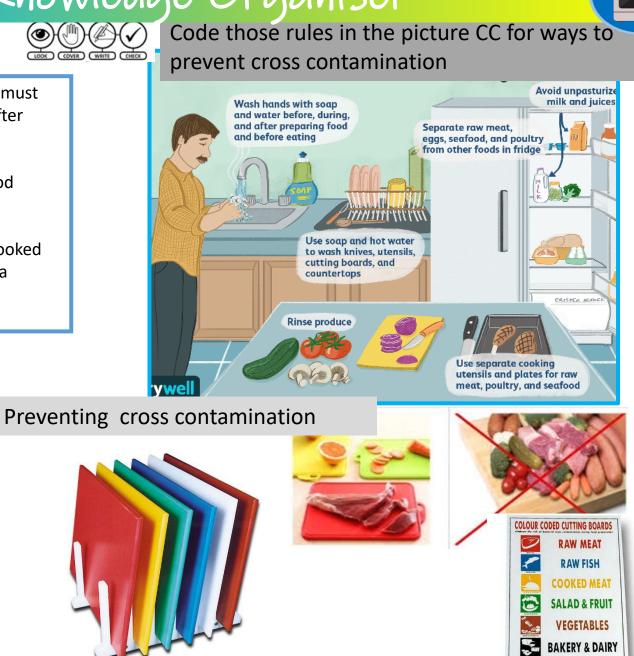
Never reheat food more than once

Chilling Cool cooked foods for no longer than 90mins before refrigerating

High risk foods must be stored below 5C **Cross Contamination**

Stroe raw foods away from cooked foods Use separate equipment (chopping boards and utensils Wash hands after handling raw meat and before preparing food





Knife Skills



Julienne 3mm*3mm*3~5cm



Medium Dice 1.25*1.25*1.25cm



Rondelle

Key abbreviations:

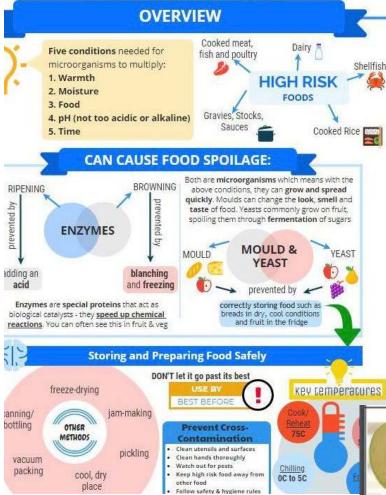
	Weights and Measurements			
Ĺ.	Litres			
g	Grams			
ml	millilitres	1000ml=1litre		
Kg	kilograms	1000g		
Tbsp	tablespoons	15ml		
Tsp	teaspoon	5ml		
lpt	1 pint	568ml		







8







Makes baked products like scone rise, light and soft

7. Enzymic browning: the process where fruit and vegetables turn brown due to them being exposed to oxygen (oxidisation).

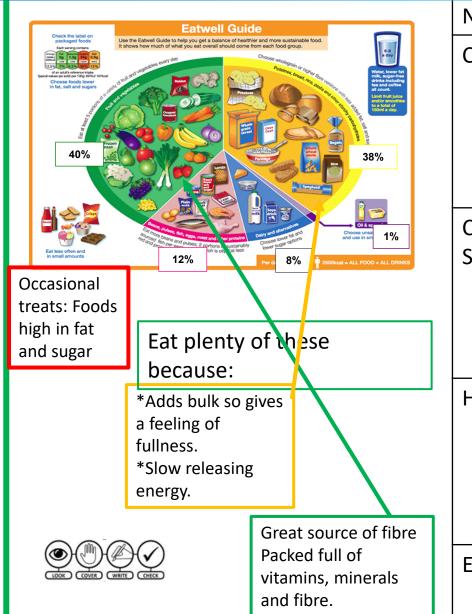


14. Rubbing in method is a method whereby you rub using your fingers together usually butter and flour to create a breadcrumb like mixture, usually the base for scones.

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Claw grip





Nutrient	How	Why
Cutting Fat	*Eat more chicken and fish and less red meat *Use skimmed or semi-skimmed milk instead of full fat milk *Grill food instead of frying *Cut fat off meat before cooking	*Overweight *Obesity *Increase in Cholesterol in the blood *Heart attack. *Type 2 diabetes
Cutting down on Sugar	 *Avoid fizzy drinks and high calorie drinks. Have fruit juice or water instead. *Eat fewer cakes, biscuits and sweets *Eat more fruit as an alternative *Try the natural sweetness of fresh fruit in puddings instead of sugar 	*Overweight *Obesity * *Heart attack. *Type 2 diabetes
Have more Fibre	 Eat lots of fresh fruit and vegetables Eat more wholemeal flour, bread, pasta, rice Use more canned beans, peas and lentils - eat more Try jacket potatoes with a variety of fillings 	*Helps to protect against diseases of the bowel. *Gives you a feeling of fullness and so can help in diets.
Eat less salt	 Use herbs and spices as an alternative to salt 	* Too much salt can lead to high blood pressure. This will increase the risk of suffering heart problems and strokes.

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Food miles and the environment



Task: When you next visit your supermarket check the food labels to see where the fruits and vegetables in your basket comes from.





Key Term	Meaning	Chocolate –
Food Miles	the distance food has travelled to get to your plate. Food must travel from the farm it is grown on or the factory it is made in to a supermarket or shop to be sold	ingredients coming from all over the world has a lot of food miles.
Carbon Emission	harmful gases such as carbon dioxide are released into the earth's atmosphere when we use fossil fuels (coal and oil) to provide energy. We need energy to grow, produce and transport food. Some food uses more energy than others.	Fond supply chain Agricultural Sector Permony processing Escondary processing Ratial sector
Local	a place close to where you live. Fruit and vegetables that were grown near you would be considered local.	Strawberries grown in Manchester/UK

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https://www.bbc.co.uk/bitesize/topics/zjr8mp3/articles/zjnxwnb

Super Learning Day Knowledge Organiser



Be An Active Citizen

Why is Manchester a multicultural city?

Manchester has embraced many different cultural groups throughout its history. Each has enriched Manchester to create a cosmopolitan city which embraces its many different people and the food and traditions that have come along with them.

Today, Manchester is a multicultural and multi-faith city made up of different communities that have settled here.

Immigrant groups formed strong communities, eg Chinatown in Manchester where it is a cultural icon. Rusholme has a thriving Asian population.

Immigrant groups have brought economic benefits and specialist knowledge to Britain. Doctors and scientists work in British hospitals and universities. Immigrants have helped resolve labour shortages and work in seasonal industries such as agriculture. In 2011, about 14% of the population belonged to an ethnic minority.

What is CSE?

Child Sexual Exploitation Abusers may:

• Try to isolate people from their friends and family

Be Safe

- Be controlling and manipulative
- Use physical or verbal abuse
- Put them in dangerous situations
- Force them into doing things they don't want to do
- Convince them that they are a friend or boyfriend/girlfriend

This is sometimes called 'grooming'

You can get help by:

- Speaking to friends and family
- Speaking to teachers
- ChildLine
- SHARP System
- CEOP

Be Respected Bullying or banter banter - a type of teasing which although usually friendly, easily turns into something people can take offensively.

What is bullying? Bullying is behaviour that hurts someone else. It includes name calling, hitting, pushing, spreading rumours, threatening or undermining someone. It can happen anywhere – at school, at home or online. It's usually repeated over a long period of time and can hurt a child both physically and emotionally.

Help and support:

If you have struggled or are struggling with the issues that have been raised in this lesson there are support measures you can use to help you.



Careers

<u>SLD 3 - What would be a</u> good career for me?

This session you will:

- Be introduced to the careers programme Xello
- Complete some quizzes
 about yourself on Xello
- Explore some jobs recommended to you
- Pick one job that interests you and explain why

<u>GMACS</u> website – Greater Manchester Apprenticeship and Careers Service <u>Xello</u> – an online platform that allows you to explore your career options <u>Matchmaker</u> – an interactive quiz that builds an online profile about your career preferences Personality Style Quiz – a

quiz on Xello that helps build a profile to identify jobs you may enjoy. bodies when we feel a surge of adrenaline; we want to fight or to run away. Anger- The name we give to the

Be Healthy

Key words - Anger Management -

The act of taking control over our

anger and managing this emotion

Adrenaline - the chemicals in our

Fight or Flight - The reaction in our

body which can lead to feeling

in a constructive way.

angry

SLD 3 Anger Management

strongest feeling of annoyance.

Signs of anger – Loud voice and sharp tone.

Jaw becomes tight

Making themselves appear bigger and invading personal space

Dealing with anger – Be aware of our "triggers"

Develop communication skills

Regular exercise and good sleep

Art - Tier 2 and Tier 3 language



	Туре	Keyword	Definition
		Layering	Placing one element over another. This could be coloured pencil, paint, collage etc
ter	language	Texture	The display of how an object would feel in reality. This can be created through mark making.
Manchester	2 lang	Structure	The underlying connection that holds up the subject, this could be a building or figure.
ur Mai	Tier 2	Proportion	How the sizes of different parts of a piece of art or design relate to each other.
0		Perspective	The representation of three-dimensional objects or spaces in two dimensional artworks.
1: ART:		Scratchboard	A form of direct engraving where the artist scratches off dark ink to reveal a white or coloured layer beneath.
SPRING	age	Hatching	Small lines drawn quickly to represent specific textures such as fur. Hatch lines can be layered up to create tone.
SPF	language	Cross-hatching	A shading technique involving the use of small, intersecting lines. The closer the lines are together, the darker the tone.
	Tier 3	Stippling	The creation of shading by using small dots. The closer the dots are together, the darker the tone.
	μ	Negative Space	The space around and between the subject of an image. Sometimes the negative space can form another image.

Colour code: BLUE= Tier 3 words ORANGE= T

ORANGE= Tier 2 words

Look out for colour coding during lessons!



Computer Science - Tier 2 and Tier 3 language

e B	Туре	Keyword	Definition
moting	uage	Audience	A group of people identified as being likely customers of a business or designing your work for.
Prom		Promoting	To attempt to sell or popularise by advertising or publicity.
CE:	lang	Sources	A place, person, or thing (image or video) from which something originates or can be obtained.
SCIENCI cause	Tier 2	Formatting	Changing the layout of a document to look more professional or fit the purpose.
ER S od ca		Application	The action of putting something into operation.
PUTER good	language	Digital Tattoo	Online reputation that is permanent.
MOC		Catfishing	A person pretends to be someone there not.
RING 1: 0		Creative Commons	A type of copyright license. Allows the copyright owner to say exactly what other people can and can't do with or to their work.
	Tier 3	Licensing	An official permission or permit to do, use, or own something.
SP	F	Plagiarism	Using someone else's work or ideas and using them as if they were your own.

S	Туре	Keyword	Definition
Networks		Buffering	Data arrived slower that it is being processed.
	guage	Search engine	A website that allows user to look up information on WWW e.g. Bing, Google etc.
SCIENCE:	lang	Router	Used to connect two separate networks together across the internet.
SCIE	Tier 2	Internet	A worldwide network of computers.
	-	Hub	Connects a number of computers together. Port allow cables to be plugged in from each connected computer.
COMPUTER		Bandwidth	Amount of data that can be moved from one point to another in a given time.
	guage	Internet of Things (IOT)	Takes everyday 'things' and connects them to the internet e.g. smart light bulb, heating etc.
NG 2:	lang	Protocol	All methods of communication needs rules in place in order to pass on the message successfully. Protocols = set of rules.
SPRING	Tier 3	HTTP/HTTPS	HyperText Transfer Protocol (Secure) – Used so data can be understood when set between computers. Secure = Encrypted.
•		Browser	Piece of software (code) used to view information on the Internet.



Computer Science - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
Excel		Data	Facts and figures in their raw form.
	guage	Row	A row is a series of data banks laid out horizontally in a table or spreadsheet.
SCIENCE	lang	Column	Columns run vertically in the worksheet, and the data goes from up to down.
R SC	Tier 2	Information	Data that has been given structure or meaning.
UTE		Formatting	Formatting in excel is used to change the appearance of the data represented in the worksheet.
OMP	guage	Conditional formatting	Automatic formatting that is triggered by conditions that you define.
1: C		SUM	Adds a range of cells.
SPRING	lang	MAX	Returns the largest value from selected cells.
SPF	Tier 3	MIN	Returns the smallest value from selected cells.
	Ξ.	COUNTIF	Counts the number of cells in a range that meet the given criteria.

	Туре	Keyword	Definition
Scratch		Execute	A computer precisely runs through the instructions.
• •	uage	Sequence	Running instructions in order.
SCIENCE	lang	Blocks	Scratch bricks that we can use to code algorithms.
	Tier 2	Lists	Allow multiple items of data to be held.
COMPUTER		Process	A set of instructions currently being processed by the computer processor.
ЧМС		Abstraction	Identify the important aspects to start with.
5:	guage	Decomposition	Breaking down a problem into smaller parts.
SPRING	lang	Algorithm	Precise sequence of instructions.
SPR	Tier 3	Iteration	Doing the same thing more than once.
		Debugging	Looking at where a program might have errors or can be improved.



Design & Technology - Tier 2 and Tier 3 language



	Туре	Keyword	Definition
		Properties	The physical, chemical, or mechanical components of a specific product that would determine its functionality and manufacturability.
	age	Evaluation	Critically consider how effective or successful a design is.
&Τ	2 langu	Development	Refining ideas to produce a final solution; taking into account all the constraints of costs, materials, function, manufacturing, aesthetics etc.
1: D	Tier	Renewable	A natural resource or source of energy that is not depleted when used.
SPRING		Analysis	To look very closely at the problem. To break down into basic parts so that the problem can be understood. Analysis is used in the early stages of the design process.
	e	Prototype	A simple experimental model of a proposed solution used to test or validate ideas.
	language	Specification	A list of features that a product should have.
	3 lan	Biomimicry	The design and production of materials, structures, and systems that are modelled on biological entities and processes.
	Tier	Isometric	A drawing system where the dimensions are not reduced to show a perspective effect. An isometric grid is drawn with lines at 30 degrees and 90 degrees to the horizontal.

	Туре	Keyword	Definition
	0)	Biodegradable	A capable of being decomposed by bacteria or other living organisms and thereby avoiding pollution.
SPRING 2: D & T	guage	Manufactured	A product produced on a large scale using machinery.
	lang	Aesthetics	Attractive - How it looks. Is it a desirable object.
	ïer 2	Consumer	The person who buys or uses the artefact or service.
	H	Sustainable	The level to which resources can be used without them becoming unavailable in the future.
S	3 ge	Photovoltaic	A system that employs solar modules, each comprising a number of solar cells, which generate electrical power.
	Tier 3 nguag	Deciduous	A tree that sheds its leaves annually.
	T lar	Coniferous	A group of trees that have fruit called cones that they do not lose in the winter.



Drama - Tier 2 and Tier 3 language

	Туре	Keyword	Definition	
ย		Mythology	A set of stories about people or creatures that were told a long time ago	
Theatre	nguage	Unison	Doing the same thing at the same time	
	a l	Canon	Doing the same movement one after another (like a Mexican wave)	
: Greek	Tier 2	Ensemble/chorus	A group of actors	
AMA		Levels	How high or low a character stands to show status (how powerful they are)	
DRA		Amphitheatre	Where actors in Ancient Greece used to perform – they are usually made of stone and carved into a hillside	
G 1:	guage	Theatron	The semi-circular seating area in the amphitheatre	
SPRING	langua	Parados	Used for the chorus to enter and exit the Orchestra	
S	Tier 3	Orchestra	The semi-circular dancing space where the chorus performed	
		Skene	The stage where the actors performed	

Telling	Туре	Keyword	Definition
	0	Split focus	Two separate scenes occurring at one time- once scene freezes whilst the other scene performs
tory	guage	Thought tracking	When a character steps out of a scene to address the audience about how they're feeling
S – S	lang:	Multi-role	When an actor plays more than one character onstage
worł	ïer 2	Tension	A growing sense of expectation within the drama, a feeling that the story is building up towards something exciting happening
Wax	F	Devising	Creating your own performance using your own ideas
MA:	C)	Tableau	A still image/freeze frame
SPRING 2: DRAI	guage	Role-Play	The act of pretending to be somebody else, of taking on a role
	lang	Projection	Speaking clearly enough so the audience can hear what you are saying
	ier 3	Dialogue	A conversation between two or more people
	F	Tone	The emotion in the voice to show the audience how the character is feeling

English - Tier 2 and Tier 3 language

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	Туре	Keyword	Definition
tions	a)	Duality (n.)	Having two or opposite sides
ma	guage	Petrifying (adj.)/ to petrify	Terrifying
nsfor	lang	Malicious (adj.)/ Malice (n.)	Cruel/ wicked
Trar	Tier 2	Hypocrisy (n.)	Caiming to have higher standards or more noble beliefs than is the case
ISH:		Metamorphosis (n.)	To transform
ENGLISH:	uage	Imperatives (n.)	Commands
1:		Zoomorphism (n.)	Describing humans like animals
SPRING	lang	Intensifiers (n.)	A modifier added to an adjective/adverb to make its meaning strong e.g. 'very, extremely, really' etc.
	Tier 3	Narrative Voice (n.)	The perspective or viewpoint the story is told from e.g. first/third person etc.
	μ	Suspense (n.)/ Suspenseful (adj.)	Building tension or anticipation on a story

	Туре	Keyword	Definition
		Alternative	Considering a different idea.
try	language	Engage	To draw somebody in or to interest them.
Poe		Cackle	An evil laugh.
LISH:	Tier 2	Intimidating	To scare or threaten someone.
ENGLISI		Evidence	To provide proof.
SPRING 2: I	0	Simile	Comparing using the words 'like' or 'as'.
	language	Metaphor	Comparing something by saying it is something.
		Enjambment	When a sentence in a poem carries on to the next line.
	Tier 3	Sibilance	The repeated 's' sound of different words.
	F	Repetition	When a word or phrase is repeated.



Food Technology - Tier 2 and Tier 3 language

	Туре	Keyword	Definition	-
ygiene		Contamination	Making something unclean or unsuitable by contact with something else.	
: Hy£	uage	Hygiene	Conditions or practices used to make something clean to help maintain good health /prevent diseases.	
уро	lang	Bacteria	Microscopic organisms not visible with the naked eye. Some are good and some can make us unwell.	
NOL	Tier 2	Microbes	Another term used to describe bacteria or viruses	
LECH		Protein	A nutrient found in some plant foods (such as lentils, beans and nuts) and animal foods (such as meat, fish, eggs)	
DD		High risk foods	Foods high in protein and moisture	
1: FO	uage	Cross contamination	The transfer of bacteria into food such as from food to food, person to food or equipment to food.	
RING :	lang	Ambient temperature	Normal room temperature. 20 - 25°C	
SPR	Tier 3	Antibacterial	Working against or prohibiting the growth of bacteria.	
	F	Danger zone	The temperature range in which bacteria thrive. 5 - 63°c.	
		w		Ē

alth	Туре	Keyword	Definition
d he		Diet	The kinds of food that a person habitually eats .
et an	uage	Cholesterol	Fatty substance found in the blood.
GY:: Die	2 langu	Diabetes	A disease in which the body's ability to produce or respond to the hormone insulin is impaired, resulting in abnormal metabolism of carbohydrates and elevated levels of glucose in the blood
0	Tier	Modify	To change
ECHNOL		Bulk	Being in large quantities. In food these are foods that are filling.
RING 2: FOOD TE	language	Saturated	This refers to a type of fat found mainly in animal foods such as dairy foods, red meat, pastries, cakes etc . The are the unhealthier types of fat .
		Cardiovascular disease	A term which is used to describe disease of the heart or its blood vessels. This is linked to a poor diet high in fat and sugar.
	lier 3	Sucrose	Sucrose is produced naturally in plants, from which <u>table sugar</u> is refined.
SP	F	Fibre	Correctly referred to as dietary fibre. It includes the parts of plant foods your body can't digest or absorb but aids digestion.



Food Technology - Tier 2 and Tier 3 language



food	Туре	Keyword	Definition	
ating 1	()	Aroma	Typically pleasant <u>smell.</u>	
aluat	Juage	Profile	A description of a something such as food.	
: Ev	lang	Fibrous	A coarse and stringy, like texture such as celery or pineapple	
CHNOLOGY	ïer 2	Bland	Foods that taste unappealingly or tasteless. That means dull, flavourless.	
INO	F	Appetising	Stimulating one's appetite.	
TECI	۵.	Sensory descriptors	Words that describe taste, smell, texture and flavour.	
OOD	guage	Olfactory nerves	Special sensory nerves for the sense of smell which plays a part in the way we taste food.	
2: F(lang	Organoleptic	A posh term for sensory analysis. Using your sensory organs to test a product. In simple language, taste testing!	
SPRING	ier 3	Umami	One of the core tastes including sweet, sour, bitter, and salty.	
SPF	F	Aftertaste	after-effect of flavour leaving a coating in the mouth after chewing food	

science	Туре	Keyword	Definition
	ıge	Alkali	Something has a pH higher than 7
TECHNOLOGY::Food	language	Carbon dioxide	A colourless, odourless gas that is used in food production such as for leavening purposes.
GY::	7	Aeration	To add or the introduction of air into food.
OIO	Tier	Hypothesis	A proposed explanation made on the basis of limited evidence.
CHN		Enzymic browning	An oxidation reaction that takes place in some foods, mostly fruit and vegetables, causing the food to turn brown.
SPRING 2: FOOD TE	lage	Polyphenol oxidase	An enzyme involved in fruit browning found in some fruits such as apples and ripe bananas.
	language	Leavening	A substance used in dough to make it rise, such as yeast or baking powder.
	Tier 3 l	Rubbing in	is to coat flour grains with fat by gently rubbing between the fingertips and thumbs, continuing until the mixture resembles coarse breadcrumbs.
SP		Ascorbic acid	Scientific name for vitamin C; essential for growth and defence against infection

Geography - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
America		Describe	Say what you see, discuss the characteristics
	language	Molten rock	Melted rock (magma/lava)
South		Explain	Say why. 'This is because'
	Tier 2	Fluctuate	Rise and fall irregularly in number of amount
GEOGRAPHY:		Climate	Average weather conditions over a period of 30 years
EOG		Subduction	The downwards movement of the denser oceanic plate beneath the less dense continental plate
1: GI	language	Subsistence agriculture	The practice of growing crops and raising livestock sufficient only for one's own use
SPRING		Commercial agriculture	The production of crops and farm animals for sale, usually with the use of modern technology:
SPR	Tier 3	Tectonic plate	Large sections of the Earth's crust that move due to convection currents
		Deforestation	The cutting down of trees on a large scale

ents	Туре	Keyword	Definition
ronments	0)	Adaptation	Change an organism makes to better suit its environment
nvir	nguage	Exploit	Make full use of a resource, potentially in an unsustainable way
me E	la	Precipitation	Any type of water that falls from the sky (rain, snow, sleet, hail)
Extre	Tier 2	Carbon sink	A natural environment that is able to absorb carbon dioxide from the atmosphere
	н	Social	Something relating to people
RAPHY	language	Cyclone	An area of low pressure, where air is rising
EOGR,		Anti-cyclone	An area of high pressure, where air is sinking
2: GE		Biome	A large scale ecosystem with specific species of flora and fauna living within a particular climate
SPRING	Tier 3	Tundra	A biome forming in areas of high pressure, characterised by extreme cold temperature, high wind speeds and low precipitation
SPF	н	Latitude	A measurement of the distance from the equator

History - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
alms	0	motive	A reason for a certain action or behaviour to take place
l Rea	guage	reform	To correct and change something, to make an improvement in society
lieva	lang	revolt	An uprising against authority, such as the uprising the barons had against King John
Med	Tier 2	rule	To have control over people as a leader
SRY:		tax	A payment that people in a country to make to support the king and the government
SPRING 1: HISTO	a)	crusade	A military journey in the Medieval period completed by European Christians to recapture the Holy Land
	language	feudal system	A system of government where people are given land and protection by a lord in return for working and fighting for them
		Magna Carta	Charter granted by King John that recognizes the rights of barons, knights, the church and freemen in England
	Tier 3	pilgrimage	A journey to a shrine or another holy place
	F	Saracens	A Muslim warrior who would fight the Christians who were on crusade

	Туре	Keyword	Definition
Medicine	a)	consequence	A result of an event happening
Med	guage	disease	An unhealthy condition caused by bacteria. It causes symptoms which will help people to identify which disease it is.
eval	lang	famine	A severe shortage of food
Medie	Tier 2	hygiene	Conditions that allow people and the environment to be healthy. Unhygienic conditions cause dirt and disease.
	F	social	Used to describe anything relating to human society living together (e.g. social factors)
HISTORY:	a)	barber surgeon	A medieval doctor who specialised in surgery such as amputations. They received no proper training.
2: HI	guage	bloodletting	The medical practice of removing somebody's blood
SPRING	lang	Bubonic plague	An infectious disease that was known as the Black Death. It caused swellings called buboes, fever, and could kill people.
	Tier 3	buboes	Swellings under the skin that were a symptom of the Bubonic plague
		cesspit	A pit which would contain great amounts of rubbish and human waste



Maths - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
		Corresponding	Corresponding objects are those that appear in the same place in two similar situations
S	language	Alternate	The word 'alternate' is usually used with pairs of angles, to indicate that each is on opposite sides of a line
АТН		Approximation	An approximation is anything that is similar, but not exactly equal, to something else.
Σ	Tier 2	Estimate	Estimation means having a rough calculation of the value, number, quantity, or extent of something.
SPRING 1	F	Bisector	A straight line or plane that bisects an angle.
	- 3 language	Perpendicular	Perpendicular lines are lines that intersect at a right (90 degrees) angle.
		Tenths	The first digit to the right of the decimal point; one out of 10 equal parts of a whole
		Denominator	he number below the line in a vulgar fraction; a divisor.
	Tier	Numerator	the number above the line in a vulgar fraction showing how many of the parts indicated by the denominator are taken

	Туре	Keyword	Definition
	0)	Frequency	How often something happens.
	language	Calculate	Work out mathematically.
SH		Solve	To find a solution.
MATHS	Tier 2	Substitute	Putting values where the letters are.
5	F	Equivalent	Of equal value.
SPRING		Proportion	The mathematical comparison between two numbers.
S	language	Coefficient	An integer that is multiplied with the variable.
		Inverse	The opposite of another operation.
	Tier 3	Vertex	The vertices of a solid figure are points where the edges connect and create a corner
		Bar model	A pictorial representation of a problem or concept where bars or boxes are used to represent the known and unknown quantities.



MFL - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
	Tier 2 language	noun	a word used to identify any of a class of people, places, or things
		verb	a word used to describe an action, state, or occurrence such as hear, become, happen
MFL		adjective	a word naming an attribute of (describing) a noun, such as sweet, red, or technical
÷		conjunction	a word used to connect clauses or sentences or to coordinate words in the same clause (e.g. and, but, if).
SPRING		translate	Convert / express the sense of (words or text) in another language.
SPI	Tier 3 language	SHET (Spanish)	Son – (they) are Hay - (there is/ there are) Es ((it) is Tiene) (it) has)
		IESAO (French)	Il y a - there is Est -is Sont -(They) are A - (he/she/it) has Ont – (they) have
		wwwww	Who What Where When Why
		AVOW	Adjective Verb Order of Words

	Туре	Keyword	Definition
	Tier 2 language	noun	a word used to identify any of a class of people, places, or things
		verb	a word used to describe an action, state, or occurrence such as hear, become, happen
<u>ب</u>		Adjectival agreement	the adjective 'agrees' with the noun it's describing in gender and number
: MFL		conjunction	a word used to connect clauses or sentences or to coordinate words in the same clause (e.g. and, but, if).
SPRING 1:		Subject pronoun	those pronouns that perform the action in a sentence. They are I, you, he, she, we, they, and who
	0	SHET (Spanish)	Son – (they) are Hay - (there is/ there are) Es ((it) is Tiene) (it) has)
	guage	IESAO (French)	Il y a - there is Est -is Sont -(They) are A - (he/she/it) has Ont – (they) have
	Tier 3 lang	ТОРСАТ	Tenses Opinions Pronouns Conjuctions Adjectival Agreement Translate
		AVOW	Adjective Verb Order of Words
		PALM	People Action Location Mood



	Туре	Keyword	Definition
	language	Rhythm	Different lengths (durations) of notes mixed together create a rhythm. This fits into the beat.
		Duration	The length of a note
U		Тетро	The speed of the music
MUSIC	Tier 2	Time Signature	A sign (looks like a fraction) that tells us how many beats are in each bar
		Beat	The pulse in music
SPRING:	Tier 3 language	Semibreve	A note that lasts for 4 beats
		Minim	A note that lasts for 2 beats
		Crotchet	A note that lasts for 1 beat
		Quaver	A note that lasts for ½ of a beat
		Semiquaver	A note that lasts for ¼ of a beat

Music - Tier 2 and Tier 3 language

Colour code: BLUE= Tier 3 words ORANGE= Tier 2 words

Look out for colour coding during lessons!



Religion and Ethics - Tier 2 and Tier 3 language

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	Туре	Keyword	Definition
	language	Compassion	To care so deeply you have to act to try and help
		Squall	A storm at sea
		Vulnerable	To feel weak and on your own. Can feel like this within a society.
1: RE	Tier 2	Respect	To treat people with care and equality
		Recruit	To enlist or gain someone to belong to your team or group
SPRING	Tier 3 language	Baptism	The process of using water to symbolising cleansing and starting a new life. Christians also do this as a welcoming ceremony
		Ministry	The role of going out and teaching people about God
		Trinity	The 3 parts of the one God in Christianity: the father, the son and the holy spirit
		Parable	A story with a hidden symbolic meaning. Jesus told parables
		Miracle	Something which breaks laws of science and therefore seems impossible

	Туре	Keyword	Definition
	language	Dedicate	To set aside time for something or a being (God)
		Distinguish	To set yourself apart from others
		Covet	To desire and envy someone's property
2: RE	Tier 2	Adultery	To cheat and have sex outside of your marriage
SPRING	F	Commitment	To be dedicated to something or someone
SPR	0	Prophet	A messenger from God
	Tier 3 language	Sanctify	To set a part and make special for God
		Kosher	'Clean' or 'correct'. The food laws found un the Torah, the Jewish holy scripture
		Omnipotent	All powerful
		Shabbat	The Jewish holy day sanctified for God.



Science - Tier 2 and Tier 3 language

	Туре	Keyword	Definition
	a)	Streamlined	Having a form that presents very little resistance to a flow of air or water.
	guage	Adolescence	Time when physical and emotional changes occur in teenagers.
ICE	Tier 2 language	Population	All the members of a single species that live in a habitat
SCIENCE	ier 2	Ecosystem	A community and the habitat in which organisms live
		Characteristics	A feature or quality belonging typically to a person, place, or thing and serving to identify them.
SPRING 1:	رە بە	Fertilisation	The action or process of fertilizing an egg or a female animal or plant, involving the fusion of male and female gametes to form a zygote.
SP	language	Gametes	A mature male or female sex cell which is able to unite with another of the opposite sex in sexual reproduction.
	3 lan	Ovulation	The release of a mature egg from an ovary
	Tier 3	Continuous	The feature can vary over a range of values e.g. height, weight, leaf area.
		Discontinuous	The feature can only take certain values e.g. blood group.
	Туре	Keyword	Definition
		Keyword Solution	Definition Is a mixture of a solute and a solvent that does not separate out.
ICE		Solution	Is a mixture of a solute and a solvent that does not separate out.
SCIENCE	2 language	Solution Filtering	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution
3 2: SCIENCE		Solution Filtering Transparent	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution Allowing light to pass through so that objects behind can be distinctly seen.
RING 2: SCIENCE	Tier 2 language	Solution Filtering Transparent Boiling	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution Allowing light to pass through so that objects behind can be distinctly seen. Boiling – When there is liquid turning into a gas in all parts of a liquid, creating bubbles of gas in the liquid.
SPRING 2: SCIENCE	Tier 2 language	Solution Filtering Transparent Boiling Hazard	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution Allowing light to pass through so that objects behind can be distinctly seen. Boiling – When there is liquid turning into a gas in all parts of a liquid, creating bubbles of gas in the liquid. A hazard is something that that can cause harm.
SPRING 2: SCIENCE	language Tier 2 language	Solution Filtering Transparent Boiling Hazard Chromatography	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution Allowing light to pass through so that objects behind can be distinctly seen. Boiling – When there is liquid turning into a gas in all parts of a liquid, creating bubbles of gas in the liquid. A hazard is something that that can cause harm. A technique for the separation of a mixture by passing it in solution through a medium in which the components move at different rates.
SPRING 2: SCIENCE	Tier 2 language	Solution Filtering Transparent Boiling Hazard Chromatography Colloid	Is a mixture of a solute and a solvent that does not separate out. Separation of an insoluble solid from a solution Allowing light to pass through so that objects behind can be distinctly seen. Boiling – When there is liquid turning into a gas in all parts of a liquid, creating bubbles of gas in the liquid. A hazard is something that that can cause harm. A technique for the separation of a mixture by passing it in solution through a medium in which the components move at different rates. The solid pieces are smaller so they don't settle out, and the mixture looks cloudy or opaque.