

### Knowledge Organisers

### Year 8 – Half Term 6

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### How to use a knowledge organiser – step by step guide

	Look, Cover, Write, Check	Definitions of Key Words	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
Step 1	Look at and study a specific area of your KO.	Write down the key words and definitions.	Use your KO to condense and write down key facts or information onto flash cards.	Use your KO to create a mini quiz. Write down your questions using your KO.	Create a mind map with all the information you can remember from your KO.	Ask a friend or family member to have the KO or flash cards in their hands.
Step 2	Cover or flip the KO over and write down everything you can remember.	Try not to use your KO to help you.	Add pictures to help support. Then self-quiz using the flash cards. You could write questions on one side, and answers on the other!	Answer the questions and remember to use full sentences.	Check your KO to see if there are any mistakes on your mind map.	They can test you by asking you questions on different sections of your KO.
Step 3	Check what you have written down. Correct any mistakes in green pen and add anything you have missed. Repeat.	Use your green pen to check your work.	Ask a friend or family member to quiz you on the knowledge.	Ask a friend or family member to quiz you using the questions.	Try to make connections, linking the information together.	Write down your answers,



Knowledge Organiser: English Year 8 - Our Literary History:

The Age of Empire.

### Ganadia Ganadia Brithin Guiana Brithin Guiana Coast Nigeria South Africa South Africa



External and Internal conflict	How does someone feel on the inside Vs how they express their emotions.
Narrative Voice	Whose perspective is the story told from. You need to consider the British empire from the aborigine's point of view as well as the settler's point of view.

### How to dissect a quote.

- Explain what the quote means
- Find language techniques
- Explain a key word
- Link it to the context of the lesson

### Structure of a paragraph

- P- Point
- E- Evidence
- T- Technique (language, Structure)
- A- Analysis
- L- Link to the question or context.

### What is the British Empire?

An **empire** is a group of areas of land (or whole countries) that are ruled over by one leading or 'mother' country. The places controlled by one mother country are usually called colonies. More than 100 years ago, Britain ruled over 450 million people living in 56 colonies around the world.

- Why did Britain want such a large empire?
- How did it get its empire?

Key Term	
Colony	A country or area under the full or partial political control of another country and occupied by settlers from that country
Settlers	A person who moves with a group of others to live in a new country or area.
Colloquial	(of language) used in ordinary or familiar conversation; not formal or literary.
Natives	Being a member of the original inhabitants of a particular place.



<ul> <li>SHAKESPEARE'S LIFE</li> <li>BORN IN STRATFORD UPON AVON 1564</li> <li>DIED 1614</li> <li>EDUCATED STRATFORD GRAMMAR SCHOOL</li> <li>MARRIED TO ANN HATHAWAY</li> <li>THEY HAD THREE CHILDREN – HAMNET,JUDITH,SUSAN</li> <li>FATHER WAS A GLOVEMAKER-GUILDSMAN</li> <li>MAIN THEATRE WAS THE GLOBE IN LONDON</li> <li>SHAKESPEARE WROTE 37 PLAYS &amp; 154 SONNETS</li> <li>GENRE OF PLAYS = TRAGEDY, HISTORY, COMEDY</li> <li>MAIN PLAYWRIGHT RIVALS WERE CHRISTOPHER MARLOWE, BEN JONSON, THOMAS KYD</li> <li>SHAKESPEARE'S THEATRE COMPANY WAS CALLED THE LORD CHAMBERLAIN'S MEN</li> </ul>	<ul> <li>HISTORICAL CONTEXT</li> <li>SHAKESPEARE'S WRITING CAREER SPANNED THE ELIZABETHAN AGE (LAST OF THE TUDORS) AND THE JACOBEAN AGE (FIRST OF THE HOUSE OF STUART).</li> <li>ELIZABETH WAS A PROTESTANT QUEEN</li> <li>SHAKESPEARE WROTE PLAYS FOR QUEEN ELIZABETH I AND JAMES I</li> <li>ELIZABETHAN BELIEFS CENTRED AROUND THE GREAT CHAIN OF BEING &amp; A SPECIFIED ORDER OF LIFE</li> <li>JAMES 1 BELIEVED IN THE DIVINE RIGHT OF KINGS</li> <li>JAMES 1 WROTE A BOOK ABOUT WITCHCRAFT CALLED 'DAEMONOLOGIE'</li> <li>GUY FAWKES ATTEMPTED TO ASSASSINATE JAMES 1</li> <li>JAMES 1 WROTE A VERSION OF THE BIBLE</li> <li>JAMES 1 WAS A PROTESTANT KING</li> </ul>	<ul> <li>SHAKESPEARE'S METHODS &amp; LITERARY DEVICES</li> <li>SOLILOQUY</li> <li>MONOLOGUE</li> <li>PROLOGUE/EPILOGUE</li> <li>IAMBIC PENTAMETER &amp; RHYMING COUPLETS</li> <li>PROTAGONIST/ANTAGONIST</li> <li>HERMATICA</li> <li>DRAMATIC IRONY</li> <li>SIMILE/METAPHOR</li> <li>ANTONYMS/CONTRAST</li> <li>MAJOR/MINOR SCENES</li> <li>5 ACT STRUCTURE</li> <li>MOTIF &amp; IMAGERY- LIGHT &amp; DARKNESS, GOOD &amp; EVIL</li> <li>METAPHYSICAL &amp; SUPERNATURAL</li> <li>FREYTAG'S NARRATIVE STRUCTURE – SINGLE PLOT ONLY</li> </ul>					
THEMES IN MACBETH AMBITION Macbeth is driven by ambition – he's willing to kill Duncan to become King and he'll do anything to keep the crown. LOYALTY & BETRAYAL Duncan trusts the wrong people.	<ul> <li>SHAKESPEARE'S MESSAGE TO THE AUDIENCE</li> <li>REGICIDE (KILLING THE MONARCH) IS NOT ACCEPTABLE</li> <li>MEN SHOULD CONTROL THEIR HOUSE &amp; WIFE</li> <li>MONTEN ADE NOT TO DE TRUCTED</li> </ul>	CHARACTERS IN MACBETH	THE THREE WITCHES	MACBETH Thane of Glamis	LADY MACBETH Wife of Macbeth		
Macbeth doesn't trust anyone. Malcolm is very careful about who he trusts. <b>THE SUPERNATURAL</b> The evil witches manipulate Macbeth. Ghostly visions drive him and his wife mad with guilt.	<ul> <li>WOMEN ARE NOT TO BE TRUSTED</li> <li>LIVE LIFE TO CHRISTIAN VALUES</li> <li>RESPECT THE MONARCH AS GOD'S HOLY REPRESENTATIVE ON EARTH</li> <li>KEEP TO YOUR PLACE IN THE GREAT CHAIN OF BEING – DO NOT BE AMBITIOUS</li> </ul>	KING DUNCAN King of Scotland	MALCOLM Son of Duncan	<b>BANQUO</b> Scottish General	<b>FLEANCE</b> Banquo's son		
FATE & FREE WILL The play explores the idea of-self- fulfilling prophecy. It's unclear whether Macbeth has control over his fate.	DO NOT DO ANYTHING UNGODLY	<b>MACDUFF</b> Thane of Fife	LADY MACDUFF	THE PORTER AT MACBETH'S CASTLE	LENNOX & ROSSE Scottish Nobles		



	Characters		Themes		Context		
Macbeth	Is considered a hero at the beginning of the play. Gets promoted from Thane of Glamis to Thane of Cawdor and eventually King. Is ambitious and manipulated by his wife.	Ambition	Macbeth allows his ambition to overwhelm him and becomes a murderer. LM is affected by the guilt of her actions caused by her ambition.	Witchcraft	People believed in witches and bad events were blamed on women who were considered to be witches. They were also tested in this time and KJ was superstitious about them.		
Lady Macbeth	Is manipulative and does not follow the stereotypical Jacobean woman of this time. Is presented as strong at the beginning of the text and weak at the end when she becomes insane because of how guilty she feels.	Fate	Macbeth puts himself in the position of having to master fate always and struggles against parts of the witches' prophecies that do not benefit him.	King James I	Ordered huge witch hunts (bigger than ever seen before) in Scotland. He also survived an assassination attempt.		
King Duncan	Is the King of Scotland at the beginning of the play. He is murdered by Macbeth after Lady Macbeth persuades him to so he can get the throne.	Guilt	Macbeth feels guilt early on whilst LM becomes guilty later on which leads to her increasing lack of sanity.	Monarchy	Monarchy His mother was known as an incompetent ruler and KJ was constantly worried, when he become King of England, that people would rebel and overthrow him.		
Banquo	Macbeth's best friend. Is ordered to be and is murdered by Macbeth as he poses as a threat to Macbeth's chances of becoming King. Macbeth loses trust in Banquo because he was present when Macbeth saw the witches. Appears as a ghost at the banquet after his murder.	The Supernatural	The witches are a clear image, as well as Macbeth disrupting the social and political order by killing KD. Also raging storms are presented mirroring Macbeth& LM's acts.	Key Terminology			
Fleance	Banquo's son. Ordered to be killed by Macbeth as he is a threat to Macbeth becoming King, however, Fleance escapes from the murderers. Foreshadowed that Fleance is a light for Scotland and Fleance will be the first King (in the witches' predictions) who will start the line of descendants.	Power	Macbeth deeply desires power. Macbeth abuses his power when he is King to avoid any threats. Lady Macbeth also desires power which is not considered a traditional trait for a woman of this time.	Hubris	Excessive pride or self-confidence. Seen in the character of Macbeth especially when the witches give the last prophecies. Macbeth becomes arrogant until he realises that Macduff was not 'born of woman'.		
Macduff	Soldier, Thane of Fife and Macbeth's rival. Grows suspicious of Macbeth after KD's murder. Forms an army with Malcolm in England and kills Macbeth at the end; a figure of mortality.	Violence	Macbeth commits violence from the beginning and continues to do so until violence is all he has left.	Hamartia	Fatal flaw. Macbeth's is unchecked ambition (also Lady Macbeth) as well as desire for power and position, as well as King.		
Lady Macduff	Macduff's wife. Is murdered along with her son after Macduff flees.	Masculinity vs Femininity	Many questions around manhood towards Macbeth and Macduff from their wives because of their decisions.	Tyrant	A cruel and oppressive ruler. Macbeth becomes this by the end of the play.		
Malcolm	King Duncan's son. Flees to England after he is killed. Represents order and once that is restored at the end of the play, he becomes King.	Loyalty	Macbeth is loyal to KD at the beginning and those who were loyal to Macbeth change side later in the play.	Treason Betraval	The crime of betraying one's country, especially by attempting to kill/overthrow the monarchy or Government. Being disloyal to a person/ group/ one's country.		
Donalbain	King Duncan's other son who flees to Ireland after King Duncan is killed.		Key Quo		Being disioyanto a personil group/ one's country.		
The Witches	The three witches open the play and later meet Macbeth with prophecies, which impacts Macbeth's life. The witches guide Macbeth on the path of his own destruction.	Fair is foul, and foul is fair.	Foreshadowing that people who are seen as good will turn evil (Macbeth) and situations seen as good will be bad (prophecies). Warns the reader to not trust expectations.	Are you a m	LM questions Macbeth's manhood as he hallucinates as sees Banquo's ghost and then becomes hysterical. This comment contrasts to what women were like at this time.		
Hecate	Known as the Head Witch or Goddess of Witchcraft; Hecate is in charge of the three witches. She is angry at the three witches but also hints at Macbeth's downfall at the end of the scene she appears in.	His mother's womb untimely ripped	Means Macduff can kill Macbeth based on the prophecy as he was born by c-section.	Look like th innocent flo be the serpe under it.	power but polite but must deceive the others so he is not suspected. Also has religion connotations to Garden of Eden.		
Ross and Lennox	Ross is Macbeth's cousin who, with Lennox, is a Scottish noble. Lennox questions Macbeth and Ross eventually turns his back on Macbeth and sides with Malcolm and Macduff.	Is this a dagger which I see before me?	Macbeth is unsure on whether to murder KD. He begins to hallucinate and comments on the wickedness of the world before being interrupted by the ringing of the bell.	All hail Mac that shalt be hereafter!			
Macdonwald	Leader of rebel forces and is killed by Macbeth. Macbeth is praised when Macdonwald is defeated.	Out damned spot! Out I say!	The blood on LM's hands will not wash off. Is a motif as connects to Macbeth saying the ocean could not wash off KD's blood after the murder.	(looking at hands) this sorry sight.	is a finds this comment from Macbeth 'foolish'.		
Siward	King Duncan's brother and leads the English army against Macbeth. His army distinguishes itself s Birnam Wood. He is a proud father and declares his approval when his son dies in battle.	I am afraid to think what I have done.	Represents guilt but also Macbeth's downfall as he continues to kill later in the play. His loyalty for KD and others has been shattered.	Wash this b clean from hand.			
	Plot	Unsex me here.	Lady Macbeth wants to be stripped of female weakness and given the strength of man.	Don't shake gory locks a			
death- new titl	ay opens with the three witches gathering and planning to meet Macbeth. Meanwhile, King Duncan it told KD decides Macbeth will be Thane of Cawdor. The witches meet again and tell Macbeth's future- he will le. He then realises that to become king, King Duncan has to die. KD announces Malcolm will inherit the get the throne; when Macbeth comes home they hatch a plan. KD later arrives at Macbeth's castle and t	about how brave Mac become Thane of Caw brone when he dies- tl	beth has been and has been victorious in the fight against the rebel forces rdor and then King. They tell Banquo that his children will be kings. Macbet his sows the first seed into Macbeth's head about how to become King. Ma	led by Macdonw h demands to kr	rald. The rebellious Thane of Cawdor has been captured and is sentenced to now more but the witches vanish and Ross and Angus arrive to tell Macbeth his		

Act 2 The night control by the minole, when Macbeth contes home they hatch a plan. Drater antwest at Macbeth's caste and that hight Lady Macbeth controls to goal and persuade Macbeth into killing the King. Act 3 The night control the murder, Banquo and Fleance unexpectedly meet Macbeth. They are surprised to see him and Banquo gives Macbeth a diamond from King Duncan for Lady Macbeth to thank her for her hospitality. Banquo tells Macbeth he dreamt of the 3 witches but Macbeth lies and says he hasn't even thought of them. Alone, Macbeth hallucinates and sees a vision of a bloody dagger. He hears a bell ring and goes off to kill KD. Lady Macbeth waits for Macbeth to return and reassures herself that she drugged the guard's wine so they will not wake up. Macbeth returns and is alarmed - he has heard a noise. Lady Macbeth realises that he has brought the daggers back and when Macbeth insists he can't go back to plant the knives on the guards, she goes instead. Whilst she is gone, Macbeth hears knocking and when she comes back, she scolds him for his cowardice and insists they go to bed. The porter opens the door to Macbuff and Lennox who are to meet with King Duncan. Macbeth takes Macduff to the chambers and they discover King Duncan is dead. They scream murder, which wakes the rest of the household. Macbeth explains that he killed the guards in anger and when Macbuff questions him Lady Macbeth faints as a distraction.

Act 3 Macbeth grows concerned about Banquo as the witches' prophecy said that Banquo's descendants will be Kings. Macbeth hires two murderers to kill Banquo and Fleance. Lady Macbeth is unaware of these plans. The murderers kill Banquo but Fleance escapes. At the celebratory banquet, Macbeth hires two murderers to kill Banquo and Fleance. Lady Macbeth is unaware of these plans. The murderers kill Banquo but Fleance escapes. At the celebratory banquet, Macbeth hallucinates and sees Banquo's ghost sending him into a frenzy of terror. Lady Macbeth tries to cover up his odd behaviour, but the banquet comes to a premature end and guests begin to question Macbeth's sanity. Macbeth then decides he must revisit the witches to look into the future once more. Meanwhile, Macbeth's thanes begin to turn against him and Macduff meets Malcolm in England to from an army against Macbeth.

Act 4 The witches show Macbeth three apparitions. The first warns him against Macduff; the second tell shim to fear no man born of woman and the third says he will fall only when Birnam Wood comes to Dunsinane castle. Macbeth believes he is almost untouchable but when he asks the witches if Banquo's prophecy will come true they show him a procession of eight kinds, all of whom look like Banquo. Meanwhile, Malcolm tests Macduff's loyalty and the two strategise against Macbeth. Back in Scotland, Macbeth has Macduff's wife and children murdered.

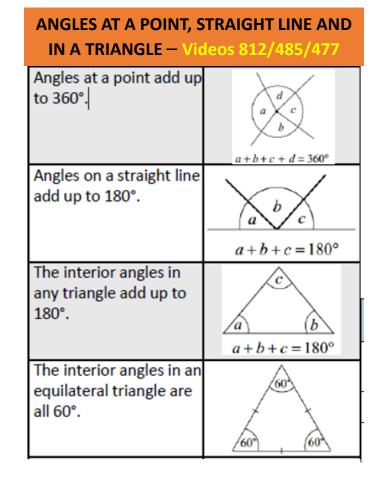
Act 5 Lady Macbeth is suffering form sleepwalking and a doctor comes to observe her symptoms. She unwittingly reveals her guilt as she says she can't wash her hands clean of bloodstains. Macbeth is too busy dealing with battle preparations to pay much heed to her dreams and expresses anger when the doctor says he can't cure her. As the English army approaches, Lady Macbeth commits suicide. When Macbeth hears of this, he says she should have died at a future date. Macbeth still believes, because of the witches, that he is impregnable to the army but Malcolm has instructed each soldier to cut a tree brand from Birnham wood and hold it up as disguise. Therefore, Macbeth's servant reports that Birnham wood is moving to the castle and Macbeth becomes worried but still engages the oncoming army. In the battle, Macbeth and decapitates him. Malcolm is then proclaimed the new king of Scotland.

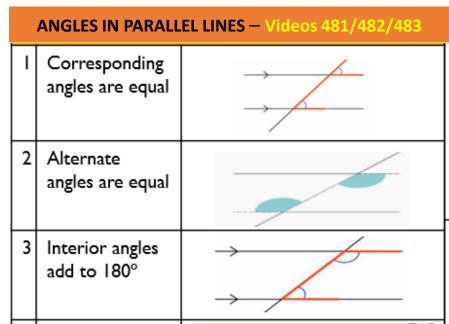




UNIT 6F – ANGLES

S	SUM OF INTERIOR AND EXTERIOR ANGLE— Videos 561/563								
Ι	Sum of <b>Interior</b> Angles.	$(n-2) \times 180$ where n is the number of sides.							
2	Size of <b>Exterior</b> Angle in a Regular Polygon.	$\frac{360}{n}$							
3	Angles in a <b>quadrilateral</b> add up to 360°.	e.g							





Vocabulary							
I	Regular Polygon	All sides the same length All angles the same size					
2	Interior	An interior angle is the angle inside the polygon at a vertex					
3	Exterior	If the side of a polygon is extended, the angle formed outside the polygon is the exterior angle.					



2

data

Height (x cm)

0 < x ≤ 10

10 < x ≤ 20 20 < x ≤ 30

30 < x ≤ 40

40 < x ≤ 50

Median for grouped

Frequency

3

7

12

31

27 80

### **UNIT 7F – AVERAGES AND RANGE**

### ESTIMATED MEAN/MEDIAN FROM A TABLE- Videos 418/416 Mean for grouped Because data is grouped we find a midpoint which we then treat as our data. data AKA 'estimated 41 length, L, cm Midpoint Frequency 0 < L ≤ 10 5 105 21 mean'. 165 10 < L ≤ 20 11 15 25 775 20 < L ≤ 30 31 420 30 < L ≤ 40 12

40 < L ≤ 50

2590-100

25

Calculate an estimate of the mean length of the fish.

100

frequency total until we get to the

2590

<u>25.9</u> Frequency total ÷ 2 then count down the

45

number. 10 = 10 vilue 30 + 11 × 10

### MMMR- Videos 405/406/409/404/410

I	Mean Add the numbers up and divide by the amount of numbers there is.	$\frac{70,\ 72,\ 74,\ 76,\ 80,\ 114}{\frac{70+72+74+76+80+114}{6}}\frac{486}{6}=81$
2	Median Arrange them in order and find the middle value.	70, 72, 74, 76, 80, 114 median $=$ $\frac{74 + 76}{2} = \frac{150}{2} = 75$
3	Mode Find the number that occurs the most.	5, 13, <mark>9,</mark> 7, 1, <mark>9,</mark> 2, <mark>9,</mark> and 11 <sub>Mode</sub> = 9
4	Range The largest value take away the smallest value.	3 4 6 7 9 $Range$ 9-3=6

	Vocabulary								
I	Modal Class	The class (or group) with the highest frequency							
2	Estimate	Roughly calculate or judge the value, number, quantity, or extent of							

35.806



### UNIT 8F – PERIMETER, AREA AND VOLUME 1

	VOLUMES OF PRISMS— Videos 571/573		RECTANGLES, PARALLLELOGRAMS AND			SURFACE AREA OF PRISMS - Videos 584/585								
1	Volume of a Cube/Cuboid V= Length × Width ×	6  cm volume = 6 x 5 x 3 = 90 cm <sup>3</sup>	1	TRIANGLES - Videos	517/559/556	I		Surface area of a rectangular prism (cuboid)		2(length x width) + 2(length x depth) + 2(width x depth)				
	Height	3 cm			= 6			Surface area of a triangular prism		(h x b) x (s1 x l) + $(s2 x l)$ + $(s3 + l)$				
2	Volume of a Prism V = Area of Cross Section × Length	$V = \pi(4)(5)$ = 62.8cm <sup>3</sup> Length	2	Area of a rectangle (length x width)	Width Length									$h \left  \begin{array}{c} s1 \\ s1 \\ b \end{array} \right  $
3	6. Volume of a Cylinder $V = \pi r^2 h$	$\forall = \pi x \ 2^2 x \ 5 = 62.8 \ \text{cm}^3$	3	Area of a Triangle (base x perpendicular height ÷ 2)	la b	3 Surface area of a cylinder		$2\pi r^2 + 2\pi rl$						
			4	Area of a Parallelogram (base x perpendicular height)	h	Vocabulary			ulary					
					6 cm		I	Perpendicular		es that are at right les (90°) to each other				
		5	Area of a trapezium $\frac{(a+b)}{2} \times h$	$4 = 55 cm^2$		2	Volume		amount of space that a stance or object occupies					
							3	Surface area		surface area of a solid ct is a measure of the <b>total</b>				

### enjoylearnsucceed

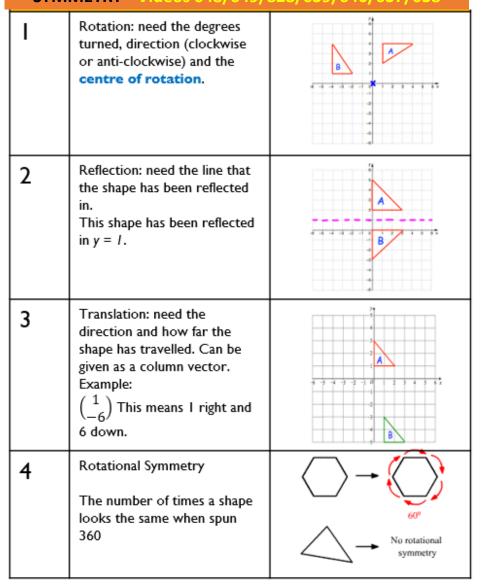
area that the surface of the

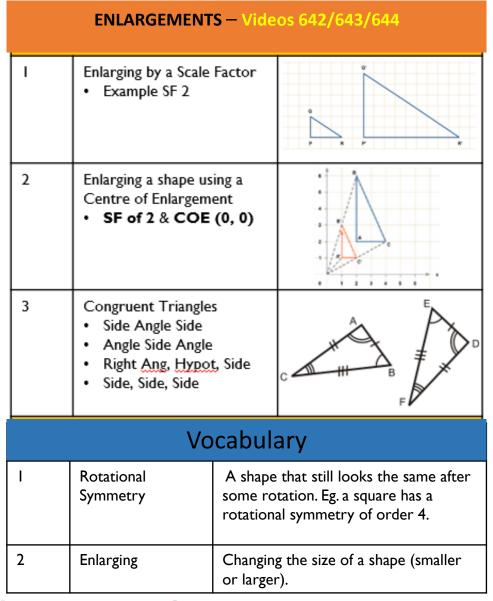
object occupies



### **UNIT 10F – TRANSFORMATIONS**

### ROTATION, REFLECTION, TRANSLATION AND ROTATIONAL SYMMETRY- Videos 648/649/828/639/640/637/638







### Y8 Science HT6 - Knowledge Organiser

Part 2 – Reactions



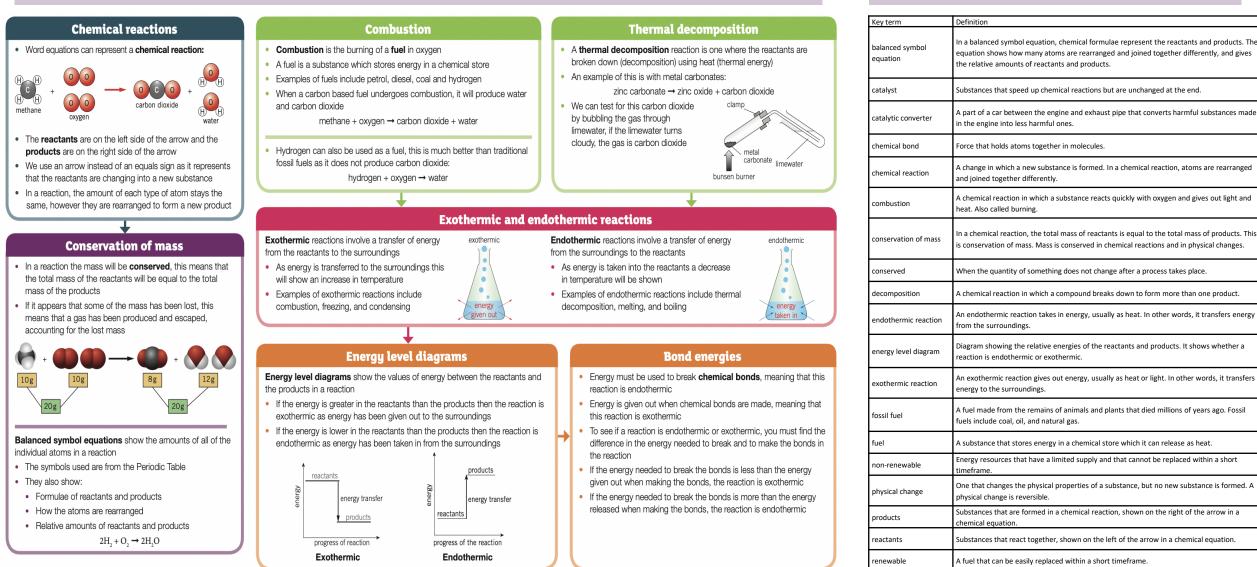
Key words:

A chemical reaction in which a compound breaks down on heating to form more than one

thermal decomposition

product

### Key content:





Part 2 – Earth



### Key content:

21%

Oxygen

78% Nitrogen

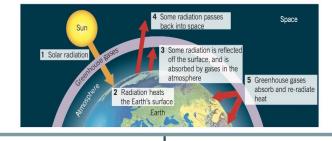
Helium

Hydrogen Other gases

Carbon dioxide

### The atmosphere

- . The air around us all of the time is known as the atmosphere, it is made up of a mixture of gases
- . When the Sun heats the Earth's surface, some of the radiation is absorbed and some is reflected back into space
- Some of the gases in the atmosphere absorb radiation that is about to be reflected into space, this keeps the Earth at a warmer temperature than it would be without the atmosphere, this is needed as otherwise it would be too cold for life
- The gases in the atmosphere which absorb and trap this radiation are known as greenhouse gases, the most commonly known greenhouse gases are carbon dioxide and methane



### **Extracting metals**

- · Metals are a natural resource, with most being found joined with other elements in compounds
- Naturally occurring metals and their compounds are known as minerals
- An ore is a naturally occurring rock which contains enough of a mineral to be worth extracting
- An example of an ore is Bauxite, which contains aluminium hydroxide
- · When metals are extracted they first have to be separated from other minerals in the ore, then they need to undergo a chemical reaction to separate them from the other element that they are joined to in a compound **Reactivity series**
- If a metal is below carbon in the reactivity series, it can be magnesium extracted by reacting it with carbon in a displacement reaction aluminium As carbon is more reactive it will take the place of the metal in the carbon compound, leaving the metal on its own: zinc carbon + metal oxide → metal + carbon dioxide carbon + copper oxide  $\rightarrow$  copper + carbon dioxide iron
- If the metal is above carbon in the reactivity series, electrolysis can be used, this involves separating the metal by using electricity copper

### **Global warming**

- Global warming is the gradual increase in temperature of the Earth
- · This is closely linked to the rise in carbon dioxide levels in the atmosphere

### The carbon cycle

- The carbon cycle is the processes by which carbon is naturally transferred to different stores through a range of natural processes
- Carbon is released into the atmosphere through combusti of fossil fuels, and animal respiration
- It is then reabsorbed by plants during photosynthesis

9	photosynthesis atmosphere	dissolving and thotosynthesis	respiration and ing out of solution	
ion	and-based animals, plants, and the soil decay in absence of oxygen	carbo	coming test	nds
	fossil fuels sedimentary	Ŧ	part of sea	life

### **Climate change**

- Long term changes to weather patterns are known as climate change
- This can cause the ice caps to melt, leading to sea levels rising and flooding of low level land
- Graphs alone cannot confirm that humans are the cause, but the majority of scientists now
- believe that human activity is a very likely cause · We can help to prevent climate change by:
- Using renewable energy resources
- Using cars less
- · Buying and wasting less resources

### Recycling

lead

- Recycling is the collecting and processing of materials that have been used so that the resources can be used again
- Recycling can have both advantages and disadvantages:

Advantages	Disadvantages
<ul> <li>Resources will last longer</li> <li>It uses less energy than extracting new materials</li> <li>It reduces waste and pollution</li> </ul>	<ul> <li>Separating rubbish can be seen as a nuisance</li> <li>The lorries collecting recycling produce pollution</li> <li>Some materials are easier to recycle than others</li> </ul>

### Key words:

Definition
The mixture of gases surrounding the Earth.
The carbon cycle shows carbon sinks, and summarises how carbon and its compounds enter and leave the atmosphere and these sinks.
Areas of vegetation, the ocean or the soil, which absorb and store carbon. Carbon and its compounds may remain in carbon sinks for many years.
A long-term change in weather patterns.
A chemical reaction in which a substance reacts quickly with oxygen and gives out light and heat. Also called burning.
Using electricity to split up a compound into its elements.
Separation of a metal from a metal compound.
A fuel made from the remains of animals and plants that died millions of years ago. Fossil fuels include coal, oil, and natural gas.
The gradual increase in the average surface temperature of the Earth.
When energy from the Sun is transferred to the thermal energy store of gases in Earth's atmosphere. The greenhouse effect keeps the surface of the Earth warmer than it would otherwise be.
A gas that contributes to the greenhouse effect, such as carbon dioxide.
Naturally occurring metals, and their compounds.
Materials from the Earth, its atmosphere, and the oceans, which act as raw materials for making a variety of products.
A naturally occurring rock that contains enough of a mineral to make it worth getting the mineral – and then the metal it includes – out of the rock.
The process plants and algae use to make their own food, glucose. In photosynthesis, carbon dioxide and water react together to make glucose and oxygen.
Collecting and processing a material so that it can be used again.
The process that transfers energy in plants and animals. In respiration, glucose reacts with oxygen to make carbon dioxide and water.



### Part 2 – Organisms

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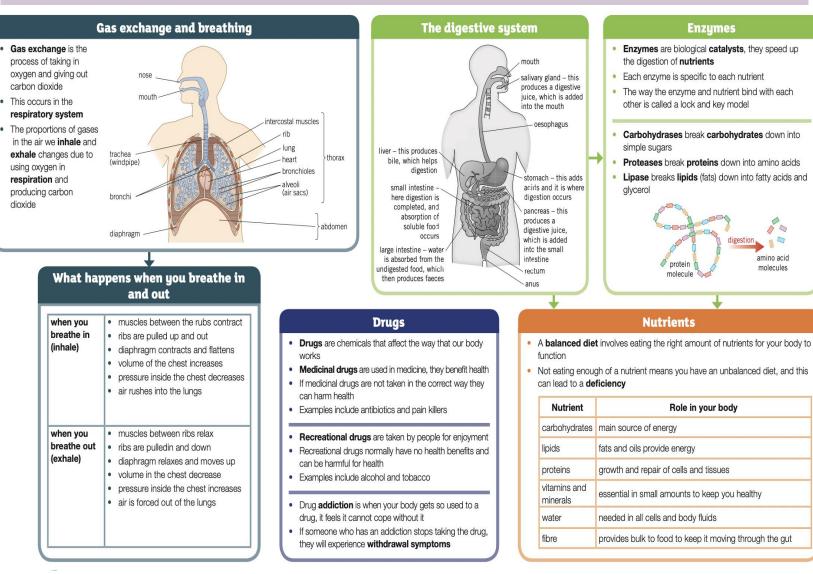
amino acid

molecules

igestion



### Key content:



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### Key words:

Key term	Definition
addiction	A need to keep taking a drug in order to feel normal.
alveolus	Small air sacs found at the end of each bronchiole where gas exchange takes place with the blood.
anus	Muscular ring through which faeces pass out of the body.
asthma	A lung disorder in which inflammation (swelling) causes the bronchi to swell and narrow the airways, creating breathing difficult
balanced diet	Eating food containing the right nutrients in the correct amounts.
bile	Substance that breaks fat into droplets.
breathing	The movement of air in and out of the lungs.
bronchiole	Small tube in the lung.
bronchus	One of two tubes which carry air into the lungs.
carbohydrase	Enzyme that breaks down carbohydrates into sugar molecules.
carbohydrate	Nutrient that supplies the body's main source of energy. There are two types: simple (sugars) and complex (starch).
catalyst	Substances that speed up chemical reactions but are unchanged at the end.
deficiency	A lack of minerals that causes poor growth.
depressant	A drug that slows down the body's reactions by slowing down the nervous system.
diaphragm	A sheet of muscle found underneath the lungs which is used in breathing.
dietary fibre	Parts of plants that cannot be digested. It helps the body to eliminate waste by providing bulk to keep food moving through the digestive system.
digestion	Process in which large molecules are broken down into smaller molecules.
drug	Chemical substance that affects the way your body works.
enzyme	Substances that speed up the chemical reactions of digestion resulting in large molecules being broken into small molecules.
food test	Chemical test to detect the presence of particular nutrients in a food.
gas exchange	The transfer of gases between an organism and its environment.
gullet	Tube that food travels down into the stomach.
large intestine	Lower part of the intestine from which water is absorbed and where faeces (solid waste of undigested food) are formed.
lipase	Enzyme that breaks down lipids into fatty acids and glycerol.
lipid	Nutrient that provides a store of energy and insulate the body. Found in butter, milk, eggs, nuts.
lung volume	Measure of the amount of air breathed in or out.
malnourishment	Eating the wrong amount or wrong types of food.
medicinal drug	Drug that has a medical benefit to your health.
mineral (biology)	Essential nutrient needed in small amounts to keep you healthy.
nutrient	Essential substance that your body needs to survive, provided by food.
protease	Enzyme that breaks down proteins into amino acids.
protein	Nutrient your body uses to build new tissue for growth and repair. Sources are meat, fish, eggs, dairy products, beans, nuts, and
recreational drug	Drug that is taken for enjoyment.
rectum	Faeces are stored here, before being passed out of the body.
respiration	The process that transfers energy in plants and animals. In respiration, glucose reacts with oxygen to make carbon dioxide from
small intestine	Upper part of the intestine where digestion is completed and nutrients are absorbed by the blood.
stimulant	A drug that speeds up the body's reactions by speeding up the nervous system.
stomach	Organ where food is mixed with acidic juices to start the digestion of protein and kill microorganisms.
trachea	Tube which carries air from the mouth and nose to the lungs.
villi	Tiny projections in the small intestine wall that increase the area for absorption.
vitamin	Essential nutrients needed in small amounts to keep you healthy.
withdrawal	Unpleasant symptom a person with a drug addiction suffers from when they stop taking the drug.



### Why does it rain?

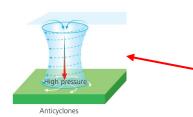
Water droplets are held in the air by warm air which is rising.

This process continues over time and the clouds become bigger and heavier as the water droplets join together.

The clouds become darker as more water droplets form.

Eventually the clouds become too heavy so the droplets fall to Earth as one of the forms of precipitation.





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### Weather or Climate? Weather - Short term conditions in the

atmosphere e.g. rain, snow.

Climate - Long term conditions in the atmosphere - patterns of weather



### condenses, th forms a cloud 4) When the cloud becomes too full of condensation - it falls as precipitation (rain, snow, sleet or 2) The evaporated water is warm and rises into the atmosphere.

3) As the water vapour rises, it

hail).

1) The sun heats up a body

of water (lake, river, sea...)

and evaporates it

cools and

### **Anticyclones and Depressions**

The air around you has weight, and it pushes down on the earth. This pressure is called air pressure.

The weather is strongly influenced by air pressure.

Depressions occur when air pressure is low (less than 1016 mb) this is because warm air near the ground is rising. Depression conditions lead to wetter and more turbulent weather.

Anticyclones occur when air pressure is high it is because colder air in the atmosphere is sinking towards the ground. Anticyclone conditions lead to drier, settled and warmer weather.

### the year. The climate type is classified as temperate, which means we rarely experience extreme weather conditions e.g. serious storms. Average monthly temperature: 10°C Temperature range: 14°C temperature (°C) 25 · 140 🎽 Annual rainfall: 593 mm 20 120 **irage** 15 100 3 nthly 80 monthly

The climate of the UK is variable – it changes a

lot, day to day. The UK has cool summers, mild

winters and rainfall spread evenly throughout

Why does the UK have such

mixed weather?

Climate of the UK

The UK is influenced by a number of air masses

because it is almost halfway between the cold

North Pole and hot Equator.

Returning polar

Tropica

Average

maritime

maritime air



Above is a climate graph which shows the climate of London over the course of a year. We can see that the blue bars show rainfall from January to December - this ranges between 38mm and 65mm a year.

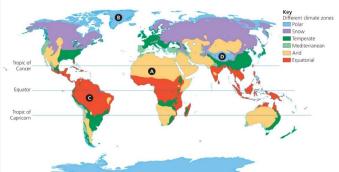
The red line shows temperature through the year - this ranges from 3°C and 20°C on average.

### Beckfoot Upper Heaton **Climates across the world**

Here in the UK we have a temperate climate but you will notice that depending on where in the world a country is in the world, there are different climates.



Places nearer the Equator are much warmer than places nearer the Poles. This is because of the angle at which the Sun shines. At the Equator, the Sun is at a high angle and shines directly at a small area making it very hot. As a result, equatorial areas remain hot and dry all year round.



Factor	How does this affect climate?
Prevailing winds	Prevailing winds are the dominant wind direction in an area. The temperature of the wind and the amount of rainfall <b>partly depend on where the air has come from</b> .
Altitude	Temperatures decrease by about 1°C for every 100 m increase in height above sea level because at higher altitudes air becomes less dense so it is less able to retain heat.
Latitude	Places nearer the <b>Equator</b> are <b>warmer</b> than places nearer the Poles. At the <b>Equator</b> , the Sun is at a <b>high</b> <b>angle</b> and shines <b>directly</b> at a <b>small area</b> making it <b>very</b> <b>hot</b> this makes these areas <b>hot and dry all year round</b> .
Distance from the sea.	The sea takes longer to warm up than the land but keeps its heat longer. In the winter, the sea keeps coastal areas warm and in summer, it cools them down. The further away from the sea a place is, the wider the range of temperatures found there

### How do we measure the weather?



### The Stevenson screen is a slatted box (painted white to reflect the

suns heat) which air passes through and allows us to accurately measure the temperature of air in the shade.

Thermometers are used to measure the current temperature.

The liquid inside the thermometer is very sensitive to temperature. When the temperature increases, the liquid expands and when the temperature drops the liquid contracts. Temperatures is measured in degrees Celsius (°C)



Air pressure is measured by a barometer. A barometer works similarly to a thermometer. When air pressure increases a liquid (mercury or water) expands and contracts again when air pressure drops. Air pressure is measured in millibars.

### **Campbell Stokes Sunshine recorder**

is a glass sphere which concentrates the rays of the Sun onto a card which is scorched by the Sun. The card is marked off in hourly intervals. As the Sun travels across the sky, the rays scorch different sections of the card. This allows us to calculate the hours of sunlight.



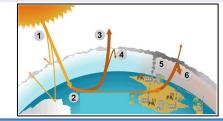
Rainfall is measured using rain gauge. This is a metal cylinder is sunk part way into the ground. Any rain that falls is collected in a container and measured.



### **The Greenhouse Effect**

The gases act as like the glass in a greenhouse trapping the heat in and keeping the inside warm.

- Heat radiates from the sun to the Earth. 1.
- 2. The Earth absorbs (takes in) some heat.
- 3. Most heat is reflected back into space.
- 4. Greenhouse gases such as (carbon dioxide) in the atmosphere block some of that heat from leaving the atmosphere.
- 5. More and more greenhouse gases build up in the atmosphere because of human processes e.g. factories and car exhausts.
- 6. This means that an increasing amount of heat is trapped over time causing the greenhouse effect.



What impact will climate change have on weather hazards?

o a card which The card is tervals. As the ky, the rays	Human causes of climate change	Physical causes of climate change
Anter the hours  Anemometers are used to measure wind speed and direction.	More countries are using fossil fuels (coal, oil and gas) to make electricity. When these are burnt they release greenhouse gases.	Volcanoes erupt releasing large amounts of volcanic dust- this can lower the temperature.
<u>Wind speed</u> is recorded on an anemometer. The faster the wind blows the faster the cups on the anemometer turn. <u>Wind direction</u> is shown by a wind vane attached. The arrow points in the	Rice fields (growing rice) produces methane, which is a greenhouse gas.	Sometimes there are sunspots which sends more heat than usual.
direction the wind is coming from.	Cars produce air pollution -gases such as carbon dioxide and nitrous oxide	The Earth is tilted and sometimes we are closer to the sun than others.
cylinder is ground. Illected in ured.	Rubbish, when its left to rot and break down and releases greenhouse gases.	Cutting down trees means there are less trees to take in greenhouse gases.

### **Extreme Weather UK:**

Extreme weather is weather which is not the norm / exceptional / breaks (Met Office) records. It occurs relatively rarely and may last for longer than expected.

The Beast from the East	<u>Summer 2018</u>
50cm of snow fell in some places but strong winds blew much of the snow into large 'drifts'. Red warnings were issued by the MET Office which means there is a 'risk to life'. Some areas in the UK experienced temperatures as low as -15°C. Thousands of drivers were stranded in vehicles, some having to sleep in their cars in freezing temperatures. Shelves were left empty as normal deliveries couldn't be made.	<ul> <li>There were 1000 more deaths than average for that time of year – mainly elderly people.</li> <li>in June just 15 mm of rain fell across the country - 75 per cent less than usual.</li> <li>There was an 80% rise in last minute trip bookings for holidays over the three month period.</li> <li>Heat damage to road surfaces in Oxfordshire in 2006 cost an estimated £3.6m to repair.</li> <li>A wildfire on the moors on Winter Hill in Bolton raged for five days</li> </ul>

### Extreme Weather across the world

### Wildfires – Summer 2018

<ul> <li>California – 38,000 deaths, 17 missing people, 3400 firefighters were sent out to</li> </ul>	<ul> <li>Typhoon Haiyan formed in the Pacific ocean in November 2016 – the Philippines</li> </ul>
fight the fire.	was the worst affected.
<ul> <li>Manchester – Schools closed, soldiers and firsticktore ware cont out to hold</li> </ul>	Typhoon Haiyan was a category 5 tropical
<ul> <li>firefighters were sent out to help.</li> <li>Greece – 74 deaths, 150 injured, People</li> </ul>	storm with winds reaching speeds of 195mph
had to be rescued by boat as they were cut	A total of 6340 people were killed
off.	• A total of \$2.9billion of damage was caused
<ul> <li>Sweden – 13 water bomber planes were</li> </ul>	<ul> <li>Philippines is a NEE country so this will be</li> </ul>
brought in (each carrying 6000 litres of	difficult to repair quickly.

### **Climate change and** extreme weather

water) to put out the flames

•

If an extreme weather event is linked to warm weather (e.g. wildfires or heatwaves) then the frequency and intensity of these events will

increase. If an extreme weather event is linked to cold conditions then it is likely that the frequency will decrease but when they do happen, it will be much more intense.

	Changes in frequency/ intensity so far?	Is this likely linked to climate change?	What is most likely in future?
UK Warm Spells	- Increase	Yes	Increase
UK Cold Spells	Decrease	Yes	Decrease
UK Heavy Rain	Increase	Inconclusive	Increase
UK Dry Spells	No trend detected	Inconclusive	Increase (summer)
UK Wind Storms	8 No trend detected	Inconclusive	Inconclusive
Global Heatwaves	Increase	Yes	Increase
		105	morease
Global Cold Events	Decrease	Yes	Decrease
Global Heavy Rain	Increase	Yes	Increase
Global Drought	Increase*	Yes*	Increase
Global Tropical Storms	No trend detected	Inconclusive	Increase and decrease**

Typhoon Haiyan



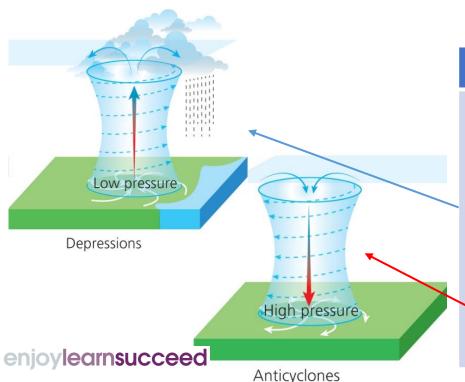
### Year 8 Weather and Climate

### Weather or Climate?

Weather - Short term conditions in the atmosphere e.g. rain, snow.

**Climate** - Long term conditions in the atmosphere – patterns of weather





### How does rain form? 3) As the water vapour rises, it cools and condenses, this forms a cloud. 4) When the cloud becomes too full of condensation - it falls as precipitation (rain, snow, sleet or 2) The evaporated hail). water is warm and rises into the atmosphere. 1) The sun heats up a body of water (lake, river, sea...) and evaporates it.

### **Anticyclones and Depressions**

The air around you has weight, and it pushes down on the earth. This pressure is called **air pressure**.

The weather is strongly influenced by air pressure.

**Depressions** occur when air pressure is **low** (less than 1016 mb) this is because **warm air near the ground** is rising. **Depression** conditions lead to wetter and more turbulent weather.

Anticyclones occur when air pressure is high it is because colder air in the atmosphere is sinking towards the ground. Anticyclone conditions lead to drier, settled and warmer weather.

### **Climate of the UK**

The Uks weather is brought by air which blows up from Africa (hot air) and down from the arctic (cold air).

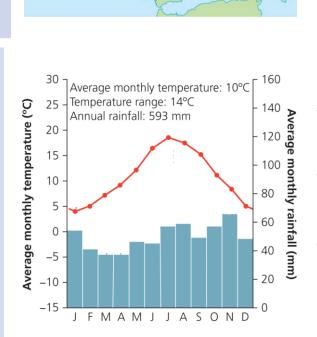
The climate of the UK is changes every day. The UK has warm summers and cold winters and rainfall spread evenly throughout the year.

We call our climate 'temperate', which means we don't get a lot of extreme weather conditions e.g. serious storms.

The climate graph shows the pattern of weather we see over a year in London.

We can see that the blue bars show rainfall from January to December – this ranges between 38mm and 65mm a year.

The red line shows temperature through the year – this ranges from 3°C and 20°C on average.



Arctic air

Polar

continenta

Tropical continental

Polar

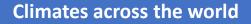
air

maritime

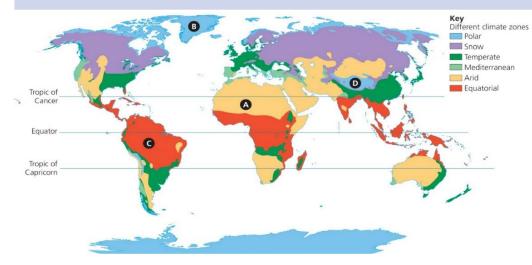
Returning polar maritime air

Tropical

maritime air 400 km



Here in the UK we have a temperate climate but you will notice that depending on where in the world a country is in the world, there are different climates.



Factor	How does this affect climate?
Prevailing winds	Prevailing winds is the <b>main direction wind moves in</b> . If wind comes from a hot place, it will bring warm weather. If wind comes from a cold place, it will bring cold weather.
Altitude	Altitude looks at how high up the land is. Every 100m higher you go, the temperature drops by 1°C. This means, the higher up you live the colder it is.
Latitude	Places nearer the <b>Equator</b> are much warmer. Places near the <b>Poles</b> are <b>colder</b> . The equator sticks out more and is closer to the sun than the poles.
Distance from the sea.	In the <b>winter</b> , the sea keeps coastal areas <b>warmer</b> and in <b>summer</b> , it <b>cools</b> coastal areas down. This means there isn't a lot of change through the year, The <b>further away from the sea</b> a place is, the <b>wider the range of</b> <b>temperatures</b> found there

### How do we measure the weather?



The Stevenson screen air passes through the slats in the box and we measure the temperature of the air inside.

### **Thermometers**

Thermometers measure the temperature.

When the temperature increases, the liquid moves up When the temperature drops the liquid contracts. Temperatures is measured in degrees Celsius (°C)





**Barometers** measure **air pressure**. When air pressure is high, the liquid pushes the needle up and when it is low, the needle drops. Air pressure is measured in millibars.

**Campbell Stokes Sunshine recorder** is a glass sphere which **sunlight passes through** and **burns a piece of card** underneath. The longer the burn line, the more sunlight we have had.





### Anemometers are used to measure wind speed and direction.

The faster the wind blows the faster the cups on the anemometer turn. Wind direction is shown as the arrow points in the direction the wind is coming from.

### Rain gauges measure rainfall.

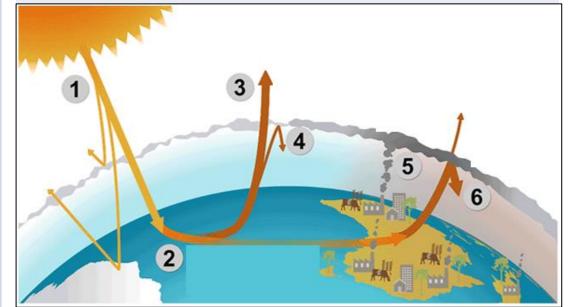
This is a metal cup is sunk part way into the ground. Any rain that falls is collected in a container and measured.

### (B)

### **The Greenhouse Effect**

The gases act as like the glass in a greenhouse – trapping the heat in and keeping the inside warm.

- 1. Heat travels from the Sun to the Earth.
- 2. The Earth absorbs (takes in) some heat.
- 3. Most heat is reflected back into space.
- 4. Greenhouse gases (like carbon dioxide) in the atmosphere trap some of that heat from leaving the atmosphere.
- 5. More and more greenhouse gases build up in the atmosphere because of human pollution e.g. factories and car exhausts.
- 6. Over time, the **gases in the atmosphere builds up**, this is the greenhouse effect. Our **Earth becomes warmer** and warmer.



Human causes of climate change	Physical causes of climate change	Ext lor
Countries burn fossil fuel (coal and oil) which causes pollution.	Volcanoes erupt ash and gas which builds up and blocks the suns heat.	• •
 Rice fields (growing rice) produces methane, which is a greenhouse gas.	Sometimes there are <b>sunspots</b> which sends more heat than usual.	•
 Cars produce gases such as carbon dioxide from their exhausts.	The <b>Earth is</b> <b>tilted</b> and sometimes we are closer to the sun than others.	<u>Wi</u>
Rubbish, when its left to rot and break down and releases greenhouse gases.	Cutting down trees means there are less trees to take in greenhouse gases.	•

Extreme weather is <b>weather which is not normal</b> and <b>of</b> longer than expected.	ten breaks records. It occurs rarely but can last for
The Beast from the East	Summer 2018
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Wildfires – Summer 2018	Typhoon Haiyan
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	The Beast from the East         • 50cm of snow fell.         • Strong winds blew much of the snow into large 'drifts'.         • Red warnings were issued by the MET Office which means there is a 'risk to life'.         • Temperatures dropped as low as -15°C.         • Thousands of drivers were trapped in their cars, on motorways over night.         • Food couldn't be delivered to supermarkets.         • Extreme Weather         Wildfires – Summer 2018         • California – 38,000 deaths, 17 missing people, 3400 firefighters were sent out to fight the fire.         • Manchester – Schools closed, soldiers and firefighters were sent out to help.         • Greece – 74 deaths, 150 injured, People had to be rescued by boat as they were cut off.         • Sweden – 13 water bomber planes were brought in

Extreme Weather UK:

P18

# Knowledge Organiser: American West

Knowledge Organiser: American West	niser: American W	lest	Beckfoot
Triber A distinct community of Indians for example the Sioux	Great Plains' Large grassland in the West of America , home of the Plains Indians.	Social* relating to socie- ty/group/community/ country you live in.	Tipir Hame of the plains Indians, made out of Buf- falo Hide (skin).
Frontier" a line or border separating two countries.	Ceremonies <sup>•</sup> a formal re- ligious or public occasion, especially one celebrating a particular event, achievement, ar anniver-	Nomadic: When a group Polygamy. When a man of people move around and has more than one wife. do not settle to live in one place.	Polygamy. When a man has more than one wife.
Chief' leader of a tribe/ band but not elected. The tribe did not have to fol- low his orders.	Migration. The movement of people from one area to another.	Mormon • A branch of Christianity which was started by Joseph Smith in 1830.	Manifest Destiny. Idea it was God's plan that white Americans should settle over all of America.
Missionary* a person sent on a religious mission, to covert people to the Chris- tian faith.	Prairie* a large open area of grassland, especially in North America.	Cannibalism <sup>•</sup> When one human eat another human such as the Donner party.	Reservation. An area of land to live on given to the Indian's by the Federal (American) government.
Indian Society Tribes were made up of bands (10-50 families), they would often meet once/twice a year for the Buffalo hunt Chiefs were the leaders of indian society and they were chosen for their skill (leadership, spiritual, wisdom or fighting).	diety ands (10-50 n meet Buffaio hunt. Buffaio hunt. Mo created the world. Everything was equal and sacred – people and nature	Indian Beliefs Dances were used when the whole tribe reeded to contact the spirits e.g. Buffalo dances. Some land was sacred, such as the Black Hills to the Sioux - they were burial grounds	Land was sacred - The mother'. They believed it could not be bought or owned by anyone as it belonged to everyone. Farming or mining was seen as disrespectful



other. Working together was key to survival on the Plains.

2

3

men (squaws) we

Wo

Each person also had a role equally important as the

57

Family life



Taking scalps of enemies or stealing horses was evidence of success. White people saw scalping this as evidence of induns being sawages.

Indians mainly fought to protect their hundling grounds or to steal horses and not for land. War parties would even run away from a fight if they were losing.

The Indians lived a travelling "nomadic" lifestyle-they constantly moved camps. Uving in tipis allowed them to pack up camp and move within Survival on the Plains Survival was based on hunting buffalo and the following of their migration across the plains.

responsible the home and families. They also turned buffalo remains into hides and meat

Tipis were perfect for the Plains, made from wood and buffalo skin they were warm in winter, cool in summer. Some lived in wooden lodges during winter.

Indians also lived off the land, they were hunter-gatherers – eating wild ge fruits and berries. They did not farm

Men were responsible for hunting, looking after the horses and protecting the bands.

The second

A

The role of Horses

measured wealth with horses , the Com had over 8000 horses in a tribe of 3000 They also were important for status measured wealth with horses , the C Horses were essential to the plains Indians, they were needed to hunt buffalo and for the constant travel.



anches

Elders were often membe of the tribal council and their opinions were ected.

Horses were key to warfare and Indians would often raid others to steal horses. Also, horsemandhip was a sign of warrior bravery.

forced to leave in 1838 after riots.

# The Mormons decide to move West

Following Joseph Smith's murder in 1845, the new leader, Brigham Young, decided the Mormons should move West to the Great Salt Lake Valley. He decided this because; it was isolated, it supposedly had water and farming land, the Mormons could live freely and importantly it was not part of the United States.

The Journey West To avoid the dangers of travelling in Winter, Young and Mormon settlers stayed at Winter Quarters in Omaha in 1846/7.

In April 1847 an advance party of 150, led by Young, set out for Salt Lake Valley. They used the Oregon Trail and the Donner Trail

In July 1847 as Brigham Young arrived in the Salt Lake Valley, another party of 1500 Mormons set off with a clear route to follow thanks to the advance party. They arrived in August 1847

Between 1847 and 1869, 70,000 Mormons followed the Mormon Trail to the Salt Lake Valley. It had been a complete success

# The Donner Party

In May 1846, the Donner party, led by Jacob and George Donner, left Missouri for California with 60 wagons and 300 people



however they were more women, elderly and children than usual. The wagons train was well equipped and they chose to follow the Oregon Trail,



By July 1846, they reached (no-one had ever gone this Fort Bridger in the Rocky 'short cut' using a leaflet Mountains and a small group decided to take a (j,kew

It proved to be a fatal mistake



The party got lost and were delayed by a month leading to them reaching the Sierra Nevada mountains late. By then they had lost 4 wagons

silst one man murdered another and 300 cattle, wh



They then became trapped in heavy snow storms in the mountains. All the cattle died and the group turned to cannibalism to survive.

Only 46 survived the journey to California after ng eventually rescued in January 1847



# By the mid 1870s, the government had forced most indians onto reservations, the indians were virtually prisoners there which effectively took away their independence. Impact of reservations on Plains Indians

gradually made smaller as whites took The reservations were usually lands not wanted by whites. It was not fertile, did not contain minerals and would make survival difficult. These lands were gradually made smaller as whit

Indian Reservations over more land.

### Living Conditions

Indians struggled to learn to farm and as the lands were unfertile, most of the crops failed due to droughts, pests and diseases. Indian skills were lost Disease (Flu), alcoholism and depression spread through the reservations Indians were no longer allowed to leave reservations to hunt the buffalo meaning they couldn't independently feed, clothe or shelter themselves.

### Control

lost the power to govern themselves. Some Plains Indians were bribed into joining the Indian Agency Police to keep order amongst the Indians setting up US federal law courts in 1885. This meant that Plains Indians The government removed the power of Indian councils and chiefs by

Feast, ceremonies and dances were banned to end their spirituality and naries were sent to convert nce on medicine men. Christian mission

school they were taught Christianity, punished if they spoke indian or danced. By 1887 there were over 2020 indians in 110 boarding schools. The motto was Xill the indian in them, save the man Plains indian children were sent to schools off reservation, if they refused food was cut off. At **Civilising Indians** 









Reservations destroyed the remains of the traditional Plains Indian way of life



morality	sense of right and wrong	stewardship	taking responsibility for the conservation of the natural environment; religious duty
<ul> <li>absolute morality</li> </ul>	unchanging moral code, giving a fixed attitude to an issue	addiction	being unable to stop doing something; having a dependence on something (e.g. drugs, alcohol)
relative morality	morality which is dependent on the circumstances of the situation, hence changeable	drug abuse	misuse of drugs so as to potentially cause harm
conscience	human sense of right and wrong; sometimes imagined as a devil and angel figure telling us what to do; seen by Christians as the voice of God	• gurmukh	Sikh belief God-centred – that a person should live every day focused on God
• justice	fairness; bringing greater equality to the lives of people	sanctity of life	the principle that human life has unconditional value
abortion	the deliberate termination of a pregnancy with the intention that there should be no baby born	• AID	artificial insemination from donor; a form of fertility treatment
contraception	methods to prevent pregnancy	• AIH	artificial insemination from husband/partner; a form of fertility treatment
creation	the living world; for most religions, this is considered to have been created by God	• brain death	complete loss of brain function, so that a person is legally dead
death penalty	state execution as a punishment for specific crimes, e.g. murder	conceive	become pregnant
• euthanasia	the deliberate ending of the life of a person who is terminally ill, or for whom life has become unbearable due to suffering; it is usually voluntary but can include the ending of life support by medical staff	• donor	the person from whom an organ is taken for use in a medical procedure to help another person in vitro fertilisation (IVF): often referred to as 'test tube
quality of life	idea of how comfortable one's life is; lack of suffering in one's life; standard of health, comfort and happiness enjoyed by an individual; defined in terms of health and happiness rather than wealth.	• IVF	in vitro fertilisation (IVF): often referred to as 'test tube
sanctity of life	the principle that human life has unconditional value	medical ethics	ideas of what is right/wrong within medicine; principles governing medical advancement
terminal illness	an incurable illness which will result in death	organ transplant	surgically removing an organ, e.g. a kidney, from one person (donor) to put into another (recipient) to save or improve their life

Scientific evidence proves that humans have caused an increase in the levels of greenhouse gases in the Earth's atmosphere, leading to higher global temperatures – global warming. This means that humans are to blame for rising sea levels, melting ice sheets, extreme weather events and plant and animal extinctions. Global warming is only one of many ways in which humans are affecting the natural world. Humans pollute the world and destroy nature – our planet would certainly be safer without humans living on it!





A Destruction of the rainforest.

A Fly tipping

### How does religion inspire environmental action?

Many religious people believe in a God who created the world. God created it, and gave it as his gift, so it needs to be looked after. Many believe humans are caretakers of the world, for example, Christians, Muslims and Jewish people believe they were given an instruction by God to be 'stewards of the world'. Other religions believe the world should be looked after because the essence of God is within all of nature. Many believe caring for the world is an act of worship and they will receive reward in the afterlife for doing so. So how do religious people put these beliefs into creating change for the planet? Every religion has groups who have the environment as their focus. They believe that action needs to be taken now as the planet is really suffering.

### Friends of Vrindavan

Vrindavan is a Hindu place of pilgrimage in northern India which is of great importance to Vaishnavite Hindus (those who worship Vishnu). Increasing numbers of visitors over time, and the demands they made on the city's resources and infrastructure, caused massive damage. As the city grew, large areas of forest were cut down, sanitation became worse and rubbish was everywhere. Friends of Vrindavan (FoV) was set up in 1997 as a 'community initiative which focuses on restoring the environment'. It aims to make it possible for pilgrims to come to Vrindavan to see the many shrines devoted to Lord Krishna, a Hindu deity, without ruining the environment, as well as reversing damage already done. It is also part of the Green Pilgrimage Network. The next box gives some examples of its work.

### RS Knowledge Organiser: Y8 HT6

### Friends of Vrindavan projects

- Project 1 FoV set up projects to manage rubbish, for example, daily collection of household waste and recycling of organic waste to create composting for farming to reduce pollution.
- Project 2 Waterways clearance and tree planting: areas have been restored to their natural state for birds and wildlife and to provide a source of clean water for local people.
- Project 3 Plastic recycling project set up to empower local women, who use recycled plastics to produce woven baskets, waste bins and other items. These are then sold, with the money reinvested
  - into the project, providing more employment for local people.

The underlying principles here are using religious service – called sewa – to protect the environment as well as humans. Stopping the damage to the environment improves human lives too.

### Religious environmental action

All religions have groups whose focus is to help the planet. They act because they believe it is an essential part of their religion. We need the Earth because it supports our existence and religious people believe they will be rewarded if they look after it. Below are some examples of environmental groups who use their religion as an inspiration for action for the planet.

- Buddhism One Earth Sangha
- Christianity Green Christians, A Rocha
- Islam Islamic Foundation for Ecology and Environmental Sciences (IFEES)
- Judaism Coalition on the environment and Jewish life (COEJL)
- Sikhism EcoSikh

### enjoylearnsucceed

### Key belief

The idea of stewardship of, or responsibility for, the environment is a key factor in all religions. This is especially true now as the concern for the planet grows.

## **CHOOL**



### A. SUBJECTS

les matières	subjects 🚄
le français	French
le dessin	art
l'informatique	ICT
le théâtre	drama
l'allemand	German
l'espagnol	Spanish
l'anglais	English
l'histoire	history
la géographie	geography
I'EPS	PE
la technologie	technology

### Positive opinions

J'aime beaucoup J'aime

Mon horloge française

12 douct

0028 Ξ

followed by

suivi(e)(s) de puis/ensuite

then/next

before

avant après

after

Je préfère J'adore

**Negative opinions** Je n'aime pas Je déteste

### es <u>|</u> a/

tellement-much vraiment—really

## D. AFTER SCHOOL

ຕ

heures.

est

6

4

Vingt

S

9

븘

vingt cinq

Ħ

8

	Je rentre à la maison. I return home.	I return home.
	Je prends le goûter.	I have a snack.
•	Je fais mes devoirs.	I do my homework.
1	Je regarde la télé.	I watch TV.
Ê	Je fais du vélo.	I ride my bike.
	Je mange.	l eat.
)	Je fais la vaisselle.	I do the washing up.
	Je me couche.	I go to bed.

e.g. J'aime le dessin moins que l'EPS. I like art less than PE. than than que = less que = more moins plus

my favourite subject

ma matière préférée

J

the teacher

homework

les devoirs

le prof

break lunch

la récré

le déjeuner

	fun	easy	boring	difficult	interesting	tiring	creative	nice	strict	but	very	too	a bit	quite
<b>B. DESCRIPTIONS</b>	amusant	facile	ennuyeux	difficile	intéressant	fatigant	créatif	sympa	sévère	mais	très	trop	nn peu	assez

finir

to finish to start a lesson

commencer

un cours

### -a lot beaucoup-

9

•	e. daily routine	I wake up	I get up	I get dressed	I brush my teeth	l wash	I shower	I go to bed	
	E. DAILY RO	Je me réveille	Je me lève	Je m'habille	Je me brosse les dents I brush my teeth	Je me lave	Je me douche	Je me couche	

## SCHOOL

# F. L'UNIFORME SCOLAIRE

	OTHE ONIME SCOPHINE	
Je porte	I wear	
un pantalon	trousers	
une jupe	a skirt	
une chemise	a shirt	
Ind un	a jumper	
des chaussures	shoes	
une cravate	a tie	_
affreux	terrible	-
confortable	comfortable	
laid	ugly	
pratique	practical	
bon marché	cheap	
cher	expensive	
joli	pretty	
		-

I. TRAN	en bus	an uniture		a velo	en avion	en bateau	en train	à pied
	RE VERBS	s	s		ons	ez	ent	
PRESENT TENSE	IR VERBS	is	is	ij	issons	issez	issent	
<b>PRESEN</b>	ER VERBS	e	es	e	ons	ez	, ent	
		Je	1	II/Elle/On	Nous	Vous	IIs/Elles	· - ,

ESSENTIAL VERBS	PRÉFÉRER—	Je préfère	Tu préfères	II/elle préfère	Nous préférons	Vous préférez	lls/elles préfèrent
ESSENT	TO HATE	l hate	You hate (s)	He/she hates	We hate	You hate (p)	They hate
<u>ر</u> ر	DÉTESTER—TO HATE	Je déteste	Tu détestes	II/elle déteste	Nous détestons We hate	Vous détestez	lls/elles détestent

You prefer (p)

We prefer

prefers

They prefer

en b			
4	en bateau	by boat	¥
ent en ti	en train	by train	c
à pied	pied	on foot	t.
L VERBS			_
PRÉFÉRER-TO PREFER	-TO PREF	e:	
Je préfère	I prefer		
Tu préfères	You prefer (s)	er (s)	1
II/elle préfère	He/she		

_

H. CLUBS	JBS
Je fais de la danse	I do dance
Je vais au club de	I go to cooking
cuisine	club
Je vais au club de	I go to
natation	swimming club
Je vais au club	I go to chess
d'échecs	club
Je joue dans	I play in the
l'équipe de foot	football team
Je joue dans	I play in the
l'équipe de basket	basketball
	team
Je suis membre du	l'm a member
club scientifique	of the science
	club
	J

### How do you get to school? Comment vas-tu au collège?

## Je vais.

10
l g

by bike

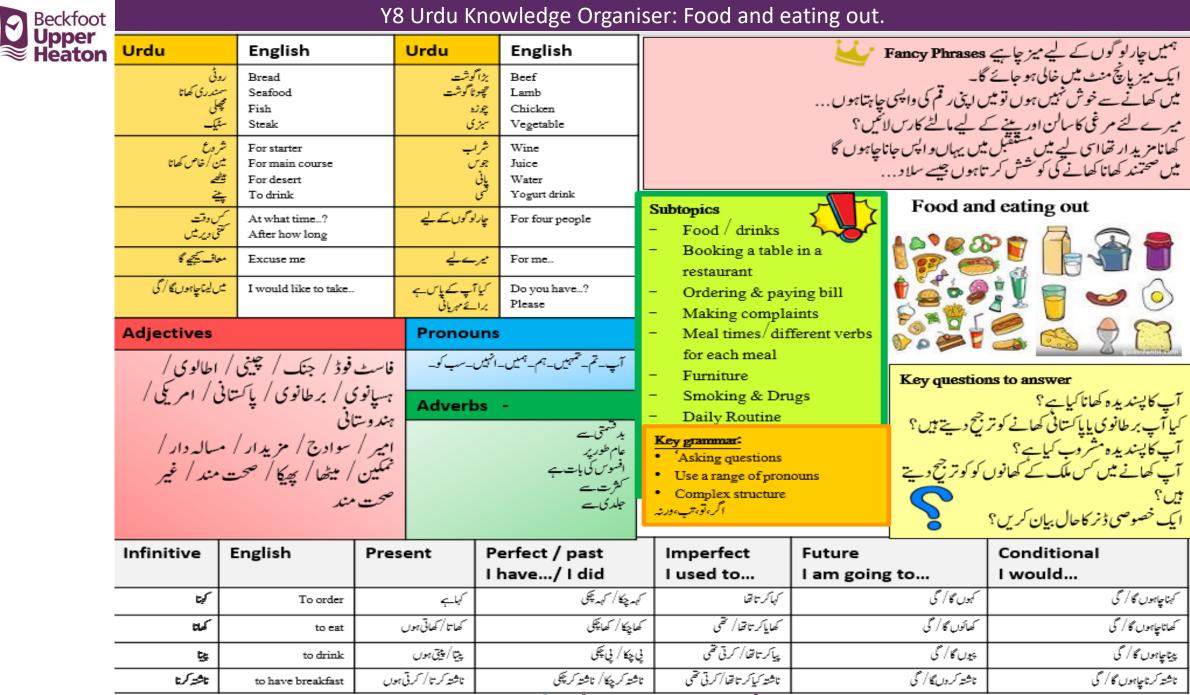
by bus by car

I. TRANSPORT

Ø

# J. COMPLEX PHRASES

Ce que j'aime le	What I like the
plus c'est	most is
Ce que j'aime le	What I like the
moins c'est	least is
Ce que je préfère	What I prefer
c'est	is
Je trouve ça	I find it
C'est vrai que	lt's true that
Je le/la/les trouve I find it/them	I find it/them



9

enjoylearnsucceed

P25





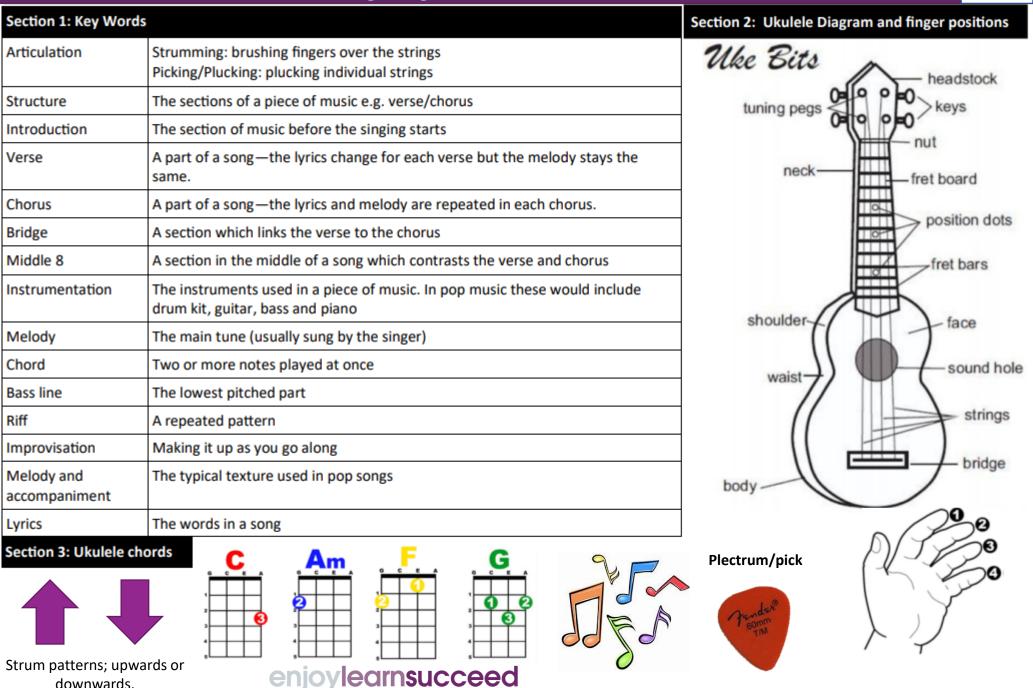
### **Tier 2 Vocabulary:**

**List** – say or write things one after another **Participate** – take part in something Compose - to make **Record** – make a version that can be looked at/listened to in the future **Recall** – remember something **Explain** – give your reasons **Demonstrate** – show **Rearrange** – change the place **Diagram** – simple pictures or shapes



downwards.

Music	Knowl	edge	Organis	er: Y8	HT6
		CURC	Signing		

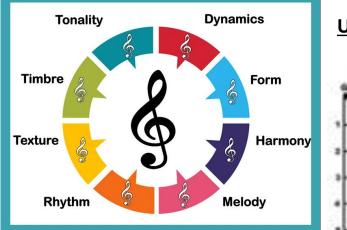


**P26** 

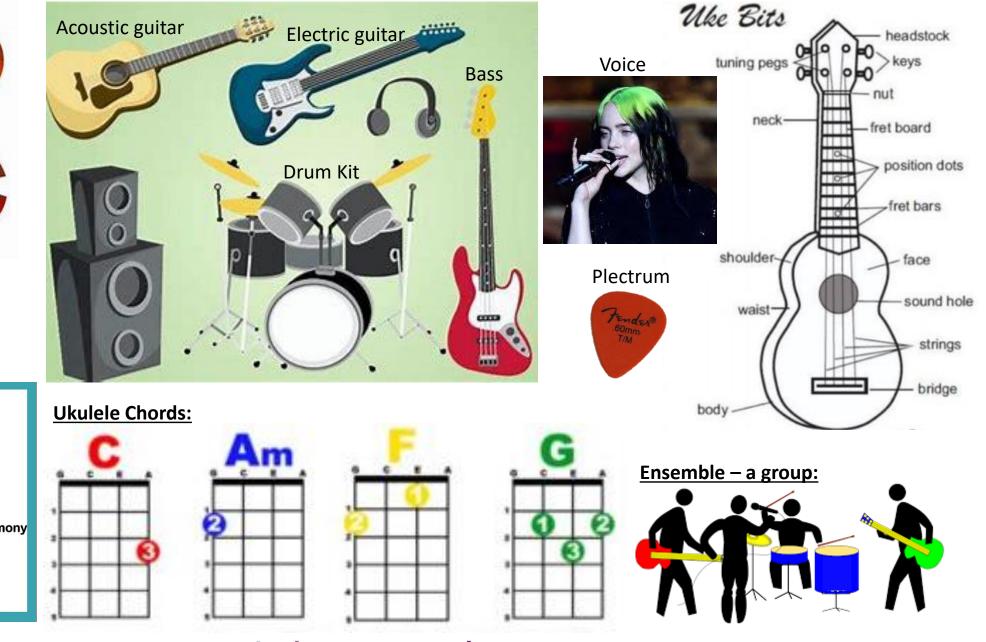




### **Elements of Music:**







### Knowledge Organiser: Year 8 Art Deco Photo Frame

### **ART DECO**

**ART DECO** was a popular design movement from 1910 until 1939. The Art Deco style was very important in the USA New York has many Art Deco buildings including the Empire State Building (the original film "King Kong" was filmed there in 1933!) and the Chrysler Building - parts of this building are based on car radiators and car bonnet decorations.

ART DECO design was used in architecture, interior design, and transportation design, as well as jewellery, painting, graphics, and film. Art Deco was a luxurious style of design, after the poverty of World War I. Its popularity peaked during the 1920s, when the cinema became popular. Many cinemas were built in the Art Deco style. Ocean liners eg. the "Normandie" were also fitted out in the

Art Deco style. The streamlining of car and aeroplane shapes, became important in the design of other items such as furniture. jewellery, household items, pottery and buildings.

ART DECO was influenced by... a variety of sources; such as African, Egyptian, and Aztec Mexican art, as well as Machine Age or Streamline technology such as modern aviation, electric lighting, the radio, and the skyscrapers of New York.

### ART DECO designs appeared geometric, zigzagged and decorative.

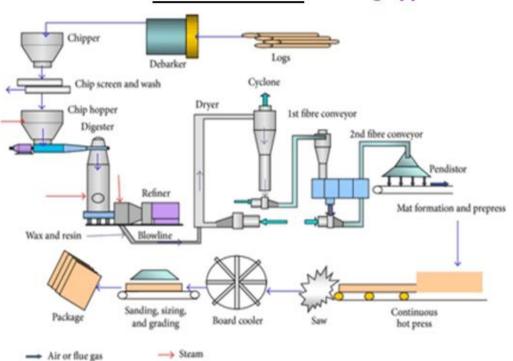
The bold use of stepped shapes and sweeping curves (unlike the sinuous, natural curves of the Art Nouveau), <u>chevron "v" patterns</u> and the <u>sunburst</u> <u>motif</u> are typical of Art Deco. Sunburst motifs were used in many ways eg on ladies' shoes, car radiator gnilles, the auditorium of the Radio City Music Hall, and the spire of the Chrysler Building.

ART DECO designs made use of materials such as bakelite, onyz, silver, diamondsstainless steel, lacquer, inlaid wood, sharkskin (shagreen), and zebra skin. Popular Art Deco colours included <u>orange, black, silver,</u> cream and green.

ART DECO - Locally, the India Rubber Tyre factory in Inchinnan, and Rogano's Restaurant in Exchange Square, Glasgow, and the former Beresford Hotel, Sauchiehall Street, Glasgow, are all good examples of Art Deco buildings.

ART DECO - Jewellery designers of the Art Deco period include Cartier & Company, Boucheron & Company and Jean Fouquet.





MDF Production

-> Solid material

### Thermoplastics



Heated & Re-Moulded 100's of times! earnsucceed can also be recycled!

Beckfoot

**Upper Heaton** 

9



### Knowlege Organiser: Year 8



6. Produce a range of mark making pages experimental marks and colour theory knowlege.



9. Using a bird template start to decorate your bird with different coloured paper s showing texture and tone.



### Knowledge Organiser: Yr8 Textiles—Day of the Dead Electronic Key Fob—Theory

### Beckfoot Upper Heaton

	Key words/ terms:						
Applique	A decorative technique where additional shaped fabrics are sewn on to create a pattern or decoration						
Embellishment	An additional decorative feature. Le: beads, sequins, ribbons etc.						
Embroidery	Stitches that create a pattern/design on the surface of fabric – by hand or machine						
Pin	A thin piece of metal with a flat and pointed end to temporarily join things together						
Needle	A thin piece of metal with a point at one end and an 'eye' at the other for thread to attach — then used to sew						
Sewing	The process of passing thread through a fabric to join together or add decoration						
Thread	A piece of spun polyester or cotton to sew with						
Felted fabric (felt)	A non-woven fabric where woollen fibres are pressed and matted together						
Reverse applique	A decorative technique where the top layer of fabric is cut away to reveal other fabrics that have been sewn on beneath						
Fabric paint	A pliable paint that adheres well to fabric and remains flexible even when dry and set						
Fabric pens	Similar to felt-tip pens but have a stronger pigment and do not wash out of fabric						
SCAMPER	An acronym to help with development of designs (substitute, combine, adapt, minify/ maxify, put to another use, eliminate, reverse/ rotate)						
E-textiles	The use of electronic components within textiles						
Conductive thread	Thread that conducts electricity but is flexible, washable and safe to touch/ wear						
Annotation	An explanatory note added to design work						

Adapt Schule Scamper burger pizza Adapt Vertice Scamper borers of the solution Stockture Scamper borers of the solution arises solution for the solution for the solution arises solution for the solution for the solution for the solution arises solution for the solution for						
	Design Process					
Design brief	A statement outlining what is to be designed and made					
Task analysis	Exploring the brief and planning what research and tasks need to be completed					
Artist research	Sourcing information on a specific artist, designer or movement to help with					
Design ideas	A range of potential solutions to the problem					
Design development	Further improving of an idea (often using the acronym SCAMPER)					
Final design	A presentation drawing of chosen idea					
Production diary	A record of the making/ practical work					
Evaluation	Reviewing strengths and weaknesses of final product and design work					

### Useful links/ further reading: <u>Five Day of the Dead Facts (Día de los Muertos) - YouTube</u> Why Skull Makeup Is A Day Of The Dead Tradition - YouTube

Day of the Dead vs Halloween! What's the Difference? - YouTube

Electric Circuits: Series and Parallel - YouTube



### Knowledge Organiser: Yr8 Textiles—Day of the D





Dead Electronic Key Fo	ob—Practical	Beckfoot Upper Heaton
hand embe	Soldery S	TITCHES
Back Stitch Straigh	t Stitch Outline Stite	ch Cross Stitch
000	ys res	-7×
Lazy Daisy Stitch French K	o mot Stitch Blanket Stitc	h Herringbone Stitch
Broken Chain Stitch	Fly Stitch	Bullion Knot Stitch
	What we	will use:
-	Practical Equipment	Materials

Technical	skills covered:
And the state of the state of the	

۲	a	π	r	n	a	a	π	ng		

Felt applique (hand)

Embellishment (embroidery etc.)

Fabric cutting

1.11

Textiles Knowledge Organiser: Y8 HT6

Reverse applique (hand)

Fabric painting

E-textiles

50 Hand Embroidery Stitches: Beginners Tutorials by HandiWorks -YouTube

What we will use:					
Practical Equipment	Materials				
Pins	Felt				
Hand needles	Ribbon				
Fabric scissors	Embroidery thread				
Fabric paint	Conductive thread				
Fabric pens	LED's				
	Sew-able switch and battery				
	Wadding				



