

Knowledge Organisers

Year 8 - Half Term 5

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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,



Key Vocabulary

Connotation- an idea or feeling which a word invokes for a person

Ambitions- a strong desire to do or achieve something.

Conventions- a way in which something is usually done.

Prosperous- Successful in material terms; flourishing financially.

Empowerment- Authority or power given to someone to do something.

Inclusivity- The practice or policy of providing equal access to opportunities and resources for people who might otherwise be excluded or marginalized

Distortion- A misleading impression.

Satire- The use of humor, irony or exaggeration **Social Responsibility**- Acting in the best interests of others.

Stereotype - A fixed image or assumption of a person/thing

Duplicitous – somebody who has two sides to their personality

Deceitful – somebody who deceives and misleads others

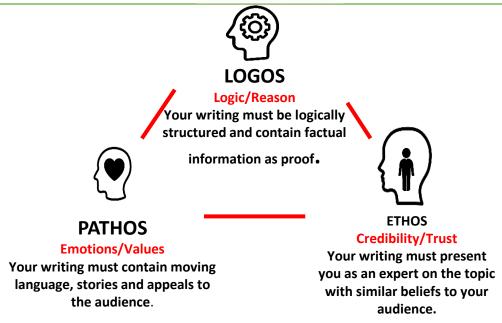


Analyse how people have risen to success through financial gain, personal ambition and social influence and how they have fallen

Forms: letter, biographical, report, expository, transactional, news article.







Transactional writing;

- A- Alliteration
- F- Forest
- O- Opinion
- R- Rhetorical question/ Repetition
- E- Emotive Language
- S- Statistic
- T- Three (power of three)

SPAG

	31710
SPAG Term	Definition
Modal Verbs	These are verbs that indicate likelihood, ability, permission or obligation. (should/would/could)
Subordinate conjunction	A subordinate conjunction joins two ideas or clauses in a sentence. (after/although/if/because)
Expanded noun phrase	An expanded noun phrase tells you more about the noun (<i>The scary beast</i>)
Possessive apostrophe	An apostrophe can be used to show that one thing belongs to or is connected to something.
Relative Clause	A relative clause adds to a sentence by using a pronoun (who, that, which, where, when, whose)



SHAKESPEARE'S LIFE

- BORN IN STRATFORD UPON AVON 1564
- DIED 1614
- EDUCATED STRATFORD GRAMMAR SCHOOL
- MARRIED TO ANN HATHAWAY
- THEY HAD THREE CHILDREN HAMNET, JUDITH, SUSAN
- FATHER WAS A GLOVEMAKER-GUILDSMAN
- MAIN THEATRE WAS THE GLOBE IN LONDON
- SHAKESPEARE WROTE 37 PLAYS & 154 SONNETS
- GENRE OF PLAYS = TRAGEDY, HISTORY, COMEDY
- MAIN PLAYWRIGHT RIVALS WERE CHRISTOPHER MARLOWE, BEN JONSON, THOMAS KYD
- SHAKESPEARE'S THEATRE COMPANY WAS CALLED THE LORD CHAMBERLAIN'S MEN

HISTORICAL CONTEXT

- SHAKESPEARE'S WRITING CAREER SPANNED THE ELIZABETHAN AGE (LAST OF THE TUDORS) AND THE JACOBEAN AGE (FIRST OF THE HOUSE OF STUART).
- ELIZABETH WAS A PROTESTANT QUEEN
- SHAKESPEARE WROTE PLAYS FOR QUEEN ELIZABETH I AND JAMES I
- ELIZABETHAN BELIEFS CENTRED AROUND THE GREAT CHAIN OF BEING & A SPECIFIED ORDER OF LIFE
- JAMES 1 BELIEVED IN THE DIVINE RIGHT OF KINGS
- JAMES 1 WROTE A BOOK ABOUT WITCHCRAFT CALLED 'DAEMONOLOGIE'
- GUY FAWKES ATTEMPTED TO ASSASSINATE JAMES 1
- JAMES 1 WROTE A VERSION OF THE BIBLE
- JAMES 1 WAS A PROTESTANT KING

SHAKESPEARE'S METHODS & LITERARY DEVICES

- SOLILOQUY
- MONOLOGUE
- PROLOGUE/EPILOGUE
- IAMBIC PENTAMETER & RHYMING COUPLETS
- PROTAGONIST/ANTAGONIST
- HERMATICA
- DRAMATIC IRONY
- SIMILE/METAPHOR
- ANTONYMS/CONTRAST
- MAJOR/MINOR SCENES
- 5 ACT STRUCTURE
- MOTIF & IMAGERY- LIGHT & DARKNESS, GOOD & EVIL
- METAPHYSICAL & SUPERNATURAL
- FREYTAG'S NARRATIVE STRUCTURE SINGLE PLOT ONLY

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. Macbeth doesn't trust anyone. Malcolm is very careful about who he trusts.

THE SUPERNATURAL The evil witches manipulate Macbeth. Ghostly visions drive him and his wife mad with guilt.

FATE & FREE WILL The play explores the idea of-self-fulfilling prophecy. It's unclear whether Macbeth has control over his fate.



- REGICIDE (KILLING THE MONARCH) IS NOT ACCEPTABLE
- MEN SHOULD CONTROL THEIR HOUSE & WIFE
- WOMEN ARE NOT TO BE TRUSTED
- LIVE LIFE TO CHRISTIAN VALUES
- RESPECT THE MONARCH AS GOD'S HOLY REPRESENTATIVE ON EARTH
- KEEP TO YOUR PLACE IN THE GREAT CHAIN OF BEING DO NOT BE AMBITIOUS
- DO NOT DO ANYTHING UNGODLY





CHARACTERS IN MACBETH	THE THREE WITCHES	MACBETH Thane of Glamis	LADY MACBETH Wife of Macbeth
KING DUNCAN King of Scotland	MALCOLM Son of Duncan	BANQUO Scottish General	FLEANCE Banquo's son
MACDUFF Thane of Fife	LADY MACDUFF	THE PORTER AT MACBETH'S CASTLE	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	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	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	The crime of betraying one's country, especially by attempting to kill/overthrow the monarchy or Government.
Donalbain	King Duncan's other son who flees to Ireland after King Duncan is killed.		Kov Ou	Betrayal	Being disloyal to a person/ 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	Are you a m	man? LM questions Macbeth's manhood as he hallucinates as sees Banquo's ghost and then becomes hysterical. This
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	(prophecies). Warns the reader to not trust expectations. Means Macduff can kill Macbeth based on the prophecy as he was born by c-section.	Look like the innocent floobe the serpe under it.	lower but polite but must deceive the others so he is not suspected
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.	s 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 be clean from hand.	blood Foreshadows that LM will be overwhelmed with guilt and
	Plot	Unsex me here.	Lady Macbeth wants to be stripped of female weakness and given the strength of man.	Don't shake gory locks	Shows the true mental state Macbeth is in. Also shows guilt and remorse for Banquo's murder
death-Inew title kind to Act 2 The niggeven the heard a bed. The	play 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 lite. He then realises that to become king, King Duncan has to die. KD announces Malcolm will inherit the to get the throne; when Macbeth comes home they hatch a plan. KD later arrives at Macbeth's castle and the tight of the murder, Banquo and Fleance unexpectedly meet Macbeth. They are surprised to see him and E thought of them. Alone, Macbeth hallucinates and sees a vision of a bloody dagger. He hears a bell ring and a noise. Lady Macbeth realises that he has brought the daggers back and when Macbeth insists he can't the porter opens the door to Macduff and Lennox who are to meet with King Duncan. Macbeth takes Maculff questions him Lady Macbeth faints as a distraction.	become Thane of Caw throne when he dies- th that night Lady Macbeth Banquo gives Macbeth and goes off to kill KD. L go back to plant the kn	wdor and then King. They tell Banquo that his children will be kings. Macbe this sows the first seed into Macbeth's head about how to become King. Math continues to goad and persuade Macbeth into killing the King. h a diamond from King Duncan for Lady Macbeth to thank her for her hospi Lady Macbeth waits for Macbeth to return and reassures herself that she d knives on the guards, she goes instead. Whilst she is gone, Macbeth hears	eth demands to kr lacbeth writes a le bitality. Banquo tel drugged the guard knocking and wh	know more but the witches vanish and Ross and Angus arrive to tell Macbeth I letter from Macbeth about his encounter with the witches but she fears he is to alls Macbeth he dreamt of the 3 witches but Macbeth lies and says he hasn't rd's wine so they will not wake up. Macbeth returns and is alarmed - he has then she comes back, she scolds him for his cowardice and insists they go to
Act 3 Macbet hallucin Meanw	eth grows concerned about Banquo as the witches' prophecy said that Banquo's descendants will be Kings sinates and sees Banquo's ghost sending him into a frenzy of terror. Lady Macbeth tries to cover up his odc while, Macbeth's thanes begin to turn against him and Macduff meets Malcolm in England to form an army	ld behaviour, but the ba y against Macbeth.	panquet comes to a premature end and guests begin to question Macbeth's	s sanity. Macbeth	h then decides he must revisit the witches to look into the future once more.
prophe	vitches show Macbeth three apparitions. The first warns him against Macduff; the second tell shim to fear n necy will come true they show him a procession of eight kinds, all of whom look like Banquo. Meanwhile, Ma	falcolm tests Macduff's	s loyalty and the two strategise against Macbeth. Back in Scotland, Macbetl	th has Macduff's v	wife and children murdered.
doctor s tree bra	Macbeth is suffering form sleepwalking and a doctor comes to observe her symptoms. She unwittingly rever says he can't cure her. As the English army approaches, Lady Macbeth commits suicide. When Macbeth orand from Birnham wood and hold it up as disguise. Therefore, Macbeth's servant reports that Birnham wo not born of woman and kills Macbeth and decapitates him. Malcolm is then proclaimed the new king of Sco	n hears of this, he says ood is moving to the ca	s she should have died at a future date. Macbeth still believes, because of t	the witches, that	t he is impregnable to the army but Malcolm has instructed each soldier to cu





Inequalities

line

on a number

UNIT 5F – EQUATIONS, INEQUALITIES AND SEQUENCES

-21

b - 21 = 5a

b - 21 = a5

EQUATIONS- Videos 217

Using inverse (opposite) Solving operations to find out a one-step missing number. and two-Example 1: step x + 6 = 11 (subtract 6) equations x = 5Example 2; 3x - 2 = 10 (add 2)3x = 12 (divide by 3) x = 4

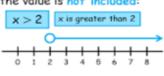
INEQUALITIES- Videos 266/267/268

Greater than (>) Greater than or equal to Less than (<) Less than or equal to (≤) 2 Representing inequalities on a $\chi > 1$ number line $x \leq 0$

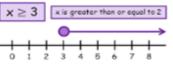
USING FORMULAE- Videos 287

Ι	Substitute numbers into a formula	Eg. Substitute numbers into the formula for the area of a trapezium:
		$\frac{(a+b)h}{2} = \frac{(3+7) \times 6}{2} = 30$
2	Rearranging formula	Make a the subject of the formula $b = 5a + 21$

An open circle means that the value is not included:



A filled in circle means that the value is included:



SOLVING INEQUALITIES- Videos 269/270/271/272

1. Solve inequalities -3 £ 2×-1 £5 +1 +1+1 -2 \ 2X \ \ 6 -2 = 2x = 6 2 358×245 -1 4 X 4 3 2. Find all the integer solutions which satisfy this inequality:

<u>-1 4 X 4 3</u>

-1.0,1,2,3

3. Solve with unknown both sides

4m - 3 < 2m + 6 $\frac{2m}{2}<\frac{9}{2}$ 2m - 3 < $m < \frac{9}{2}$ 2m

Vocabulary				
I	Equation	is an expression equaling another. Eg) 3b + 2 = 2d		
2	Substitution	Replace letters with numbers.		
3	Formulae	Show the relationship between two or more variables		
4	Inverse	The reverse of something else.		

Half term 5

Part 2 – Matter

Key content:

3 4 5 6 7

N

Si

O F Ne

S CI

Н

Group 1

Group 1 elements are also known as the alkali metals

They share similar properties with other metals such as:

Group 1 metals are much softer than other metals and

Group 1 elements react with water to form alkali solutions

lithium + water → lithium hydroxide + hydrogen

metal + water → metal hydroxide + hydrogen

. The further down the group that the metal is, the more

vigorous the reaction will be. This is called a **trend**

Another trend seen in Group 1 is with the boiling and

melting points: the further down the group, the lower the

Being good conductors of electricity and heat

also have much lower melting and boiling points

Being shiny when freshly cut

boiling and melting points are

Cr Mn Fe Co Ni Cu Zn Ga Ge

Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb

Cs Ba La Hf Ta W Re Os Ir Pt Au Hg TI Pb Bi Po At Rn

Elements and atoms

- An element is a substance that only contains one type of atom, it is found on the Periodic Table
- Each element has it's own unique chemical symbol which is the same in every language, these are also found on the Periodic Table

Li Be

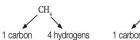
Na Mg

Fr Ra

- . An atom is the smallest part of which an element can be broken down into
- As there are around 100 types of elements that can occur naturally, there are around 100 different atoms

Compounds

- Compounds are formed when two or more different elements chemically bond together
- The compound will have different physical properties to the elements which make up the compound, for example water is a liquid, but it made from oxygen and hydrogen which are both gases
- Compounds are hard to separate and need a chemical reaction to do this
- When naming a compound, we always mention the metal first and the non metal second
- The name of the metal will not change but the name of the non metal will, for example oxygen can change to oxide
- Chemical formulae tells us how many atoms of each element are in the compound in relation to each other





 The small number tells us the number of each element which is in front of the number

Polymers

- Polymers are long chains of groups of atoms which are repeated many times
- Natural polymers are not man-made and include wool, cotton, starch and rubber
- Synthetic polymers are man-made and include polythene, polystyrene and nylon

Groups and periods

- **Groups** are the columns in the Periodic Table, they go downwards
- Periods are the rows in the Periodic Table, they go sideways
- Elements in the same group normally follow the same trends in properties such as melting point, boiling
 point and reactivity
- By placing these elements into these groups, scientists can make predictions about their properties

Group 0

- Group 0 elements are known as the noble gases
- They are all non metals with low melting and boiling points, meaning all are gases at room temperature
- The boiling point decreases going down the group
- All of the group 0 elements are unreactive
- When electricity is passed through the gas, they emit a brightly coloured light, this can be seen in neon signs

fluorine most reactive chlorine bromine least reactive

Group 7

- Group 7 elements are also known as the halogens
- They share similar properties with other non metals such as:
 - Having low melting and boiling points
 - Not conducting electricity
 - Moving down the groups the elements have an increased melting and boiling point
 - The halogens also react in a similar way to one another, for example with iron:

iron + chlorine → iron chloride

iron + bromine → iron bromide

- Halogens can undergo displacement reactions, this is where a more reactive halogen will take the place of a less reactive halogen
- The most reactive halogens are at the top of the group, and the least reactive halogens are at the bottom of the group
- If the most reactive halogen is on its own, it will take the place of the less reactive halogen in a compound



Key words:

Key term	Definition
alkali metals	The elements in the left column of the Periodic Table including lithium, sodium, and potassium. Also called Group 1.
atom	The smallest part of an element that can exist.
carbonate	A compound that includes carbon and oxygen atoms, as well as a metal element. There are three atoms of oxygen for every one atom of carbon.
chemical formula	A formula that shows the elements present in a compound and their relative proportions.
chemical properties	Features of the way a substance reacts with other substances.
chemical symbol	A one- or two-letter code for an element that is used by scientists in all countries.
compound	Pure substances made up of atoms of two or more elements, strongly joined together.
element(s)	Substances that all other materials are made up of, and which contain only one type of atom. An element cannot be broken down into other substances.
group	A column of the Periodic Table. The elements in a group have similar properties.
Group 0	Group 0 is on the right side of the Periodic Table. Group 0 elements include helium, neon, argon, and krypton. Also called the noble gases.
Group 1	The elements in the left column of the Periodic Table, including lithium, sodium, and potassium. Also called the alkali metals.
Group 7	Group 7 is second from the right of the Periodic Table. Group 7 elements include fluorine, chlorine, bromine, and iodine. Also know as the halogens.
halogen	The name for elements in the group that is second from the right of the Periodic Table. Halogens include fluorine, chlorine, bromine and iodine. Also known as the Group 7 elements.
hydroxide	A compound that includes hydrogen and oxygen atoms, as well as a metal element. There is one atom of oxygen for everyone atom of hydrogen.
molecule	A group of two or more (up to thousands) atoms strongly joined together. Most non-metal elements exist either as small or giant molecules.
natural polymer	A polymer made by plants or animals. Examples include starch, wool, cotton, and rubber.
nitrate (chemistry)	A compound that includes nitrogen and oxygen atoms, as well as a metal element. There are three atoms of oxygen for every one atom of nitrogen.
noble gases	The name for elements in the group on the right of the Periodic Table. Noble gases include helium, neon, argon, and krypton. Also known as the Group 0 elements.
period	A row of the Periodic Table. There are trends in the properties of the elements across a period.
Periodic table	A table which shows all the elements arranged in columns and rows. Elements with similar properties are grouped together.
physical properties	Features of a substance that can be observed without changing the substance itself.
polymer	A molecule made by joining up thousands of smaller molecules in a repeating pattern. Plastics are synthetic polymers, and starch is natural polymer.
sulfate	A compound that includes sulfur and oxygen atoms. There are four atoms of oxygen for every one atom of sulfur.
synthetic polymer	A polymer made by people, often in a factory. Examples include poly(ethene) and poly(propene).
trend	A pattern in properties, such as an increase or decrease.
unreactive	Elements that take part in few chemical reactions are unreactive.

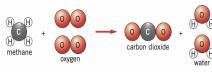
Half term 5

Part 2 – Reactions

Key content:

Chemical reactions

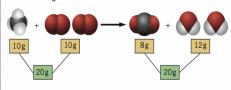
Word equations can represent a chemical reaction:



- The reactants are on the left side of the arrow and the products are on the right side of the arrow
- We use an arrow instead of an equals sign as it represents that the reactants are changing into a new substance
- In a reaction, the amount of each type of atom stays the same, however they are rearranged to form a new product

Conservation of mass

- In a reaction the mass will be conserved, this means that the total mass of the reactants will be equal to the total mass of the products
- If it appears that some of the mass has been lost, this
 means that a gas has been produced and escaped,
 accounting for the lost mass



Balanced symbol equations show the amounts of all of the individual atoms in a reaction

- The symbols used are from the Periodic Table
- They also show:
- Formulae of reactants and products
- How the atoms are rearranged
- · Relative amounts of reactants and products

 $2H_2 + O_2 \rightarrow 2H_2O$

Combustion

- · Combustion is the burning of a fuel in oxygen
- A fuel is a substance which stores energy in a chemical store
- Examples of fuels include petrol, diesel, coal and hydrogen
- When a carbon based fuel undergoes combustion, it will produce water and carbon dioxide

methane + oxygen → carbon dioxide + water

 Hydrogen can also be used as a fuel, this is much better than traditional fossil fuels as it does not produce carbon dioxide:

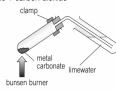
hydrogen + oxygen → water

Thermal decomposition

- A thermal decomposition reaction is one where the reactants are broken down (decomposition) using heat (thermal energy)
- An example of this is with metal carbonates:

zinc carbonate → zinc oxide + carbon dioxide

 We can test for this carbon dioxide by bubbling the gas through limewater, if the limewater turns cloudy, the gas is carbon dioxide



Exothermic and endothermic reactions

Exothermic reactions involve a transfer of energy from the reactants to the surroundings

- As energy is transferred to the surroundings this will show an increase in temperature
- Examples of exothermic reactions include combustion, freezing, and condensing



Endothermic reactions involve a transfer of energy from the surroundings to the reactants

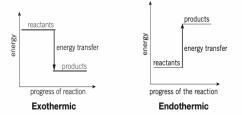
- As energy is taken into the reactants a decrease in temperature will be shown
- Examples of endothermic reactions include thermal decomposition, melting, and boiling



Energy level diagrams

Energy level diagrams show the values of energy between the reactants and the products in a reaction

- If the energy is greater in the reactants than the products then the reaction is exothermic as energy has been given out to the surroundings
- If the energy is lower in the reactants than the products then the reaction is endothermic as energy has been taken in from the surroundings



Bond energies

- Energy must be used to break chemical bonds, meaning that this reaction is endothermic
- Energy is given out when chemical bonds are made, meaning that this reaction is exothermic
- To see if a reaction is endothermic or exothermic, you must find the difference in the energy needed to break and to make the bonds in the reaction
- If the energy needed to break the bonds is less than the energy given out when making the bonds, the reaction is exothermic
- If the energy needed to break the bonds is more than the energy released when making the bonds, the reaction is endothermic

Key words:

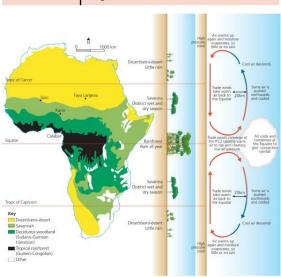
Key term	Definition
balanced symbol equation	In a balanced symbol equation, chemical formulae represent the reactants and products. The equation shows how many atoms are rearranged and joined together differently, and gives the relative amounts of reactants and products.
catalyst	Substances that speed up chemical reactions but are unchanged at the end.
catalytic converter	A part of a car between the engine and exhaust pipe that converts harmful substances made in the engine into less harmful ones.
chemical bond	Force that holds atoms together in molecules.
chemical reaction	A change in which a new substance is formed. In a chemical reaction, atoms are rearranged and joined together differently.
combustion	A chemical reaction in which a substance reacts quickly with oxygen and gives out light and heat. Also called burning.
conservation of mass	In a chemical reaction, the total mass of reactants is equal to the total mass of products. This is conservation of mass. Mass is conserved in chemical reactions and in physical changes.
conserved	When the quantity of something does not change after a process takes place.
decomposition	A chemical reaction in which a compound breaks down to form more than one product.
endothermic reaction	An endothermic reaction takes in energy, usually as heat. In other words, it transfers energy from the surroundings.
energy level diagram	Diagram showing the relative energies of the reactants and products. It shows whether a reaction is endothermic or exothermic.
exothermic reaction	An exothermic reaction gives out energy, usually as heat or light. In other words, it transfers energy to the surroundings.
fossil fuel	A fuel made from the remains of animals and plants that died millions of years ago. Fossil fuels include coal, oil, and natural gas.
fuel	A substance that stores energy in a chemical store which it can release as heat.
non-renewable	Energy resources that have a limited supply and that cannot be replaced within a short timeframe.
physical change	One that changes the physical properties of a substance, but no new substance is formed. A physical change is reversible.
products	Substances that are formed in a chemical reaction, shown on the right of the arrow in a chemical equation.
reactants	Substances that react together, shown on the left of the arrow in a chemical equation.
renewable	A fuel that can be easily replaced within a short timeframe.
thermal decomposition	A chemical reaction in which a compound breaks down on heating to form more than one product.

Climate of Africa Weather Day to day conditions in the atmosphere e.g rainy. Climate Atmospheric conditions over a long period of time.

The climate zones and biomes of Africa have evolved as a repeated pattern north and south of the Equator. This pattern has developed due to the interactions of the atmosphere, hydrosphere and biosphere.

Biomes in Africa

Tropical rainforest	Located on the equator – this area receives the most direct heat from the sun – the sunlight heats the moist air here which rises, cools and condenses forming rain clouds – the rain allows the vegetation to grow.			
Savannah	Located between the equator and tropics – this area has a wet season and a dry season – there is limited vegetation here because of the limited rain.			
Deserts	Located on the Tropics of Cancer and Capricorn – Hot and dry receiving very little to no rainfall. There is very little vegetation.			



This figure shows the biomes across the continent of Africa on the left. On the right Is a diagram of how the air causes the formation of the different Biomes.

The Horn of Africa





Countries in the Horn of Africa

Country	Country Population	
Somalia	15 million	0.4
Ethiopia	109 million	0.47
Eritrea	3.5 million	0.35
Djibouti	994,000	0.49

Volcanoes in the Horn of Africa

Tectonic plates

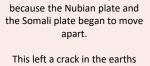
The Earth's crust is separated into plates which move. When the plates move, they cause volcanoes and earthquakes.



Inis diagram snows the East Africa Rift Valley. Rifting means two tectonic plates are pulling apart.

The diagram shows a cross section of the earth to show what is happening in the East African Rift Valley.

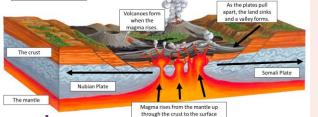
enjoylearnsucceed



The East Africa Rift Valley formed

his left a crack in the earths crust called a rift valley.

Today, this rift is a large rift in the landscape of Africa but in future, this rift will fill up with water and become a sea. Part of the rift has already filled with water, this is the Red Sea.

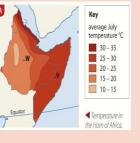


Physical features of the Horn of Africa

Physical features – features of the Horn of Africa controlled by climate and geological processes.

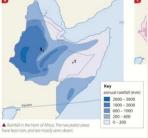
There is high and low lying land in the Horn of Africa. The low lying land is mainly in the east and south east of the country and covers most of the country of Somalia. The highland is located in Ethiopia, Djibouti and Eritrea.

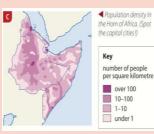




Temperatures in the Horn of Africa are higher in low lying land, particularly along the coast. The highest temperatures (30°c -35°c) are in Somalia and the coasts of Eritrea and Djibouti. The lowest temperatures (10°c - 15°c) are in the highlands of Ethiopia.

Rainfall in the Horn of Africa is higher in the highlands in Ethiopia and the southern coast of Somalia (2000-3000mm). The lowest levels of rainfall are received in central and north eastern Somalia as well as eastern low lying Ethiopia and the northern coastline of Eritrea and Diibouti (0-200mm).





Population in the horn of Africa is unevenly distributed. The highest population are found in western Ethiopia and the northern coast of Somalia. The lowest population is located in the desert areas.

Development in the Horn of Africa compared with other countries within Africa

	Ethiopia	Somalia	Eritrea	Djibouti	Nigeria	South Africa
Birth rate	32.1	41.8	29.6	21.2	37.2	19.9
Infant mortality	41	78.7	31.6	51.5	59.1	25.7
Life expectancy	65.5	55.4	65	63.8	54.8	64.1
Literacy rate	51.7	49.7	67.8	57	62	87
GNI US\$	850	130	567	3540	2030	6040
HDI	0.47	0.4	0.35	0.49	0.53	0.7





Urbanisation in Addis Ababa, Ethiopia

Urbanisation

An increase in the percentage of a countries population living in urban areas.

Addis Ababa is the capital city of Ethiopia. Since 1950 the population of the city increased from 400,000 people to 4.5 million people. Lets have a look at the push and null factors for Addis Ahaha

pull factors for Addis Ababa						
Pull factors	Push Factors					
Addis Ababa is home to 4.5 million people speaking 80 languages.	80% of the population of Addis Ababa live in slums.					
Life expectancy in all of Ethiopia is 45 but in Addis Ababa it is increased to 64.	25% of those living in the slums have no access to toilets.					
Addis Ababa is the meeting place for the 55 countries of the African Union.	35% of properties in Ethiopia only have one room.					
The River Bulbula and the River Akiki flow through the city supplying the city with water.	Due to poor sanitation systems, diseases such as cholera and typhoid are spread easily.					
Bole International Airport is located in Addis Ababa which has ~12 million passengers a year.	23% of women in Addis Ababa are illiterate and only 22% of women complete primary school.					

Nomadic life in Somalia

Nomads

People that travel from place to place to find fresh land for their animals and have no permanent homes.

When travelling Nomads use camels to carry everything. Sometimes, too many nomads travel to one place and fight over land.





There are at least 10 million nomads in the horn of Africa – over half of which live in Somalia (1/3 of the population).

Nomads live very basic lives with no electricity or sanitation systems. They depend on finding natural water sources and cook on fires. Each day, women spend a large proportion of time finding water.





Nomads breed and look after animals like cows and goats. They eat the produce but also sell it for money. Children attend school in the morning and tend animals in the afternoon.

Salt Mining in the Danakil Depression

The Danakil depression, is a 200km by 50km area in Ethiopia, covered in salt flats, volcanoes and sulphur fields.





The salt mines located in Lake Afar, which forms part of the depression, stretch some 60 square km and go down to 300 feet below sea level. Salt is exported out of the region by 2000 Camels and 1000 Donkeys each day.

It is swelteringly hot, temperatures are on average 34 degrees Celsius and at times climb to 50 degrees. Over 1.3 million tonnes are extracted a year and sold worldwide.



Coffee farming in Ethiopia

25 million people across the world in 56 countries make an income from coffee farming. 12 million of these people in 26 of the countries are in Africa.

> The industry is worth \$1.8 billion in Africa and \$100 billion in to the rest of the world.

500 million coffee drinkers daily PROCESS FROM TREE TO CUP Source: UNCTAD secretariat. Photo credit: thecoffeeofficina.c

Life by the coast in Somalia

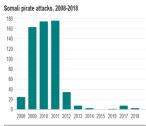
SOMALIA

Somalia has a population of 11 million people. The majority of people in Somalia are Muslim and speak Somali and Arabic. Somalia is one of the least developed countries in the world. 73% of people live in poverty and earn \$2 a day and the life expectancy is only 56 years.

Due to the climate, most of the population live by the coast. The most common employment is fishing.



Somalia's government is extremely ineffective. They collect no taxes so cannot provide services e.g. education. Somalia has also been rocked by civil wars and conflicts so life is very hard! Somaliland in the north is an area that essentially runs separately from the rest of the country and piracy is common. The EU and US have positioned Navy ships in the area to help reduce crime.



Knowledge Organiser: American West



Tribe: A distinct commu- nity of Indians for examples are grassland in the West of America, home of the Plains Indians.	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.	Tipi: Home of the plains Indians, made out of Buf- falo Hide (skin).
Frontier: a line or border separating two countries.	Frontier: a line or border Ceremonies: a formal reseparating two countries. Iigious or public occasion, especially one celebrating a particular event, achievement, or anniversary.	Frontier: a line or border Ceremonies: a formal respecially one celebrating a particular event, achievement, or anniver-	Polygamy: When a man has more than one wife.
Chief: leader of a tribe/ Migration: The movemer band but not elected. The of people from one area tribe did not have to fol- to another.	Chief: leader of a tribe/ Migration: The movement Mormon: A branch of band but not elected. The of people from one area Christianity which was tribe did not have to fol- to another. Started by Joseph Sm in 1830.	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-	Missionary: a person sent of grassland, especially in human eat another huma on a religious mission, to North America.	n.	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 nce/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). Famous chiefs include Red Cloud and Sitting Bull. Chiefs had no actual power as everything had to be agreed by the well respected tribal council. these were a group of elders, medicine men and chiefs.

were trained young fighters who led the war. They did not have to follow council orders – buffalo hunt and went to Warrior brotherhoods



Real honour came not from killing but from counting coup. This was getting close enough to touch an enemy without being hurt.



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

The role of Horses

Horses were essential to the plains Indians, they were needed to hunt buffalo and for the constant travel.

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

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

in the Great Spirit who created the Indians believed

world. Everything was equal and - people and nature sacred

Indian Beliefs
Dances were used when
the whole tribe needed 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

everyone. Farming or mining was seen as disrespectful believed it could not be bought or owned belonged to

Family life

Survival on the Plains

Survival was based on hunting buffalo and the following of their migration across the plains.
Survival relied on hunting skills

equally important as the other. Working together wa key to survival on the Plains Each person also had a role

responsible the home and families. They also turned buffalo remains into hides Women (squaws) were and meat

The Indians lived a travelling 'nomadic' lifestyle—they constantly moved camps. Living in tipis allowed them to pack up camp and move within

minutes



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.

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



Elders were often members of the tribal council and their opinions were respected.

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

They also were important for status – men measured wealth with horses , the Comanches had over 8000 horses in a tribe of 3000

orced to leave in 1838 after riots.



The Mormons decide to 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. Following Joseph Smith's murder in 1845, the new leader, Brigham Young, decided the Mormons should move West

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



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 The wagons train was well equipped and they chose to follow the Oregon Trail, and children than usual.



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

It proved to be a fatal mistake.







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

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

Impact of reservations on Plains Indians



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

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 whites took over more land.

Indian Reservations

Living Conditions

the crops failed due to droughts, pests and diseases. Indian skills were lost Indians struggled to learn to farm and as the lands were unfertile, most of 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

Feast, ceremonies and dances were banned to end their spirituality and 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 lost the power to govern themselves. Some Plains Indians were bribed reliance on medicine men. Christian missionaries were sent to convert The government removed the power of Indian councils and chiefs by

they spoke Indian or danced. By 1887 there were over 2020 Indians in 110 boarding schools. The school they were taught Christianity, punished if

Plains Indian children were sent to schools off reservation, if they refused food was cut off. At

Civilising Indians

motto was 'Kill the Indian in them, save the man'



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

on the Plains VEBRASKA AEXICO

Religion and Science Knowledge Organiser – Year 8 HT5

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Christian views on creation

- -God created the universe in 6 days & rested on the 7th. (Genesis)
- God Produced an environment on the earth which is perfectly suited for human life.
- -Because God made the earth, the earth belongs to God.
- -As everything has been made by God, the whole environment must be respected by humans.
- -The environment is a gift from God to humans and so must be treated with care.
- God created the environment as something that is good, therefore Christians have a duty to preserve the environment and make sure that it continues to be what God intended it to be

Muslim views on creation

- -The Universe and everything in it was created by Allah as a place perfectly suited for human life.
- It was created by one God so unity in all of creation.
- -Balance in the universe which is revealed in this unity and the Qur'an.
- -As everything has been made by God, the whole environment must be respected by humans.
- -The environment is a gift from God to humans and so must be treated with care.
- -There is unity and balance in creation, therefore Muslims have a duty to preserve the environment and make sure that it continues to be what God intended it to be.

How does religion inspire environmental action?

- -Many religious people believed in a God who created a the world. God created it and gave it as a gift and so it needs to be looked after.
- -Many believe that 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 word should be looked after because the essence of God is within all of the nature.
- -Many believe caring for the world is an act of worship and they will receive reward in the afterlife for doing so.
- -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 -FoV

Vrindavan is a Hindu place of pilgrimage in Northern India.

Increasing numbers of visitors put pressure on the city, rubbish piled up and forests cut down.

FoV was set up in 1997 as a community initiative aimed at restoring the environment.

Scientific theory on creation

- -Time and space started with a small ball of infinite density a singularity.
- -The singularity exploded the Big Bang. It let loose a huge amount of energy which travelled away from it.
- -As the energy expanded, the amount of space got bigger and bigger. Particles of energy came together to form matter the gasses and liquids and solids that make up the universe.



Stewardship

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.



Taking care of the environment

The Alliance of Religions and Conservation (ARC) was founded in 1995 by Prince Philip. It is a charity that helps the major religions of the world to develop their own environmental programmes based on their own core teachings, beliefs and practices.

Buddhism- One Earth Sangha

Christianity – Green Christmas

Islam-Islamic Foundation for Ecology and Environmental Sciences

Sikhism – EcoSikh

Science	Knowledge and facts based on the natural and physical nature of the world.	Duty	A legal or moral obligation and responsibility.	P14
Religion	A belief system followed by a group of people.	Pilgrimage	A religious journey to a place of religious importance.	· - ·
Universe	All existing matter and space (also known as the cosmos).	Environment	Everything around us, living and non living; especially nature.	
Origins	The beginning of everything.	Khalifah	Duty to look after the plant (Islam)	
Creation	How the world began.	Krishna	An avatar of Vishnu; Vishnu heard the cries of humans suffering and	
			incarnated as Krishna in order to help them.	
Scientific truth	Truths reached through scientific experiment and research.	Pilgrimage	Spiritually motivated journey to a sacred place.	
Religious Truth	Truths found in holy books and religious belief systems. Believed to be revealed	Stewardship	Taking responsibility for the conservation of the natural environment;	;
	by God.		religious duty.	
Theological Truth	Same as religious truth – see above	Vaishnatives	Those who worship Vishnu, who they see as the Hindu Supreme Lord.	
Historical Truth	Truths about the past. Based on evidence, documents and archelogy.	Vishnu	Part of Trimurti; sustainer role, maintaining life and the universe (in	
			Hinduism).	
Legal Truth	A truth as a result of a court case that investigates the evidence presented.	Vrindavan	City in North India, which is sacred to Vaishnatives, said to have been	the
			place Krishna loved when growing up.	
Conscience	That 'inner voice' that tells us right from wrong.	The Big Freeze	As the universe expands, it gets colder and colder too cold for any life	form
			to exist.	
Big Bang	A scientific theory on the creation of the world.	The Big Crunch	The expansion of the universe slows to a stop. Then it contracts back i	into
			singularity read for another Big Bang.	
Biogenesis	Life can only come from things that are living.	The Big Rip	The universe gets faster and faster until everything in it rips apart.	
Abiogenesis	The idea that life can come from non-living things.	Messiah	The King assigned by God who will lead the people during the end tim	ies in
			Judaism.	
Creationism	The belief that the universe and living organisms originate from specific acts of	Eschatology	The Christian belief in the end times/ the end of the world.	
	divine creation, as in the biblical account, than by natural processes such as			
	evolution.			
Evolution	Changes and adaptation in species and populations over time (through	Brahma	The creator God in Hinduism.	
	generations).			
Theistic Evolution	The belief that God directs evolution.	Trimurti	The three main aspects of God within Hinduism	
Morality	The ability to decide right from wrong.	Vishnu	The preserver and protector God in Hinduism.	
Spirituality	The search for meaning and purpose in life.	Shiva	The destroyer God in Hinduism.	
Moksha	The Hindu belief that people can become free from the cycle of rebirth and be at one with God.	Rebirth	Cycle of death and rebith.	

HA French Knowledge Organiser: Y8 HT5 - Holidays

HOLIDAYS

Places to stay

Un appartement – an apartment

Un gite - cottage

Un hotel - hotel

Une auberge de jeunesse - Youth hostel

Je reste – I stay

Une caravane - caravan

Un camping - campsite

Une villa - villa

At the seaside

La plage - beach

La mer - sea

La piscine – swimming pool

Au bord de la mer - seaside

Le parc d'attraction – theme park

Le promenade - promenade

Les batiments - buildings

Les sites touristiques – tourist sites

In the city

Les magasins - shops

Le centre commercial – shopping plaza

La poste – post office

Le restaurant - restaurant

Le café - café

Le musée - museum

La gare - train station

L'hopital - hospital

Key Phrases

Manger au restaurant- to eat at a restaurant

Aller a la plage – to go to the beach

Nager dans la mer – to swim in the sea

Faire les sports aquatiques – to do water sports

Faire une randonnée- to go hiking

Faire une promenade - to go strolling

Jouer aux sports – to play at sports

Acheter des souvenirs - to buy souvenirs

Le transport

Le train - train

Louer une voiture - to hire a car

La voiture - car

Le car - coach

Le bus - bus Le vélo - bike Acheter un billet – to buy a ticket



Activities on holiday

La chambre – bedroom

Le clé – key

L'escalier - steps

La reservation - reservation

La serviette - towel

Le maillot de bains - swimsuit

The weather

II fait beau - It is nice

II faisait beau - It was nice

II fera beau - It will be nice

II pleut - It is raining.

II plevait - It was raining

II pleura - It will rain

Les Verbes

Je mange/ je bois – I eat/ I drink

Je nage/ je joue – I swim/ I play

Je fais/ je ne fais pas – I do/ I don't

Je prends – I get (as in transport)

Je me relaxe – I relax

Je vois/ je visite – I see/ I visit

Tense Formation

J'ai mangé / J'ai bu — I ate/ I drank

Je mangerai / je boirai – I will eat/ I will drink

J'ai nagé/ j'ai joué – I swam/ I played

Je nagerai/ je jouerai – I will swim/ I will play

J'ai fait / je n'ai pas fait – I did / I didn't

J'ai pris – I took, je prendrai – I will take

Je me suis relaxé (e)/ je me relaxerai – I will relax /I relaxed

J'ai vu/ j'ai visité – I saw / I visited

Je verrai/ je visiterai – I will see/ I will visit

Additional Grammar – Opinions and adjectives

C'était - It was/ Ce sera - It will be

formidable - fantastic

passionnant - exciting

barbant - boring

amusant – fun

super - super

Fatigant – tiring
Relaxant - relaxing

LA French Knowledge Organiser: Y8 HT5 - Holidays

HOLIDAYS

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Beckfoot

Upper Heaton Key Phrases

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Il pleura – It will rain

Les Verbes

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Je prends – I get (as in transport)

Je me relaxe - I relax

Je vois/ je visite – I see/ I visit

J'aime – I like

Opinion verbs

Je n'aime pas – I don't like

J'adore I love

Je déteste - I hate

Followed by the infinitive

Additional Grammar – Opinions and adjectives

C'est – It is

formidable – fantastic

passionnant – exciting

barbant - boring

amusant – fun

super - super

Fatigant – tiring Relaxant - relaxing



1	Urdu	English	Urdu	English			ncy Phrases ا_اگرمیرےیاس استخ		e 6: يخطيال /مير وسياحت Tourism local, national,
	رکنا/ کھبر نا	to stay / lodge	اسلام آبادمار کیٹ	a market (in Islamabad)			۲_اس_ے بہلے تمیرے	internat	ional areas of interest
	چھٹیوں کا گھر	a holiday home	بدقشمتی	(un) fortunately			سو_جمیں کچھ کرناتھا ۴-کیکن ترجیح دوں گا/ مینورا	1	المنافقة المنافقة
	نوجوانوں کا ہاسٹل	a youth hostel	گکٹ۔ نوٹ۔ پیسے	a ticket a note (money)	St - -	ubtopics holidays Booking hotels	۵_میر ایکنچنا / رواند موا		
	الحچمی قیمت	good value for money	ساحل سمندرسير گاه	the seaside resort	-	restaurants reviews	گزار <u>تے ہیں</u> ؟	ئے ت کہاں ً	سوالات جواب دینے کے گئے ا۔ آپ عام طور پر اپنی تعطیلا،
	adjectives		intensifiers		-	travelling shopping			۲۔ اپنی حالیہ چھٹیوں کے بار۔
	صورت۔ آسانی سے	1 **	ہ / انتہائی / لہذا / زیادہ / اس دوران میں time phrases		<u>Ke</u> •	ey grammar: opinions Reflexive verbs Tenses	ييس ۽	بترجح دب	سر آپ چھٹی پر کیا کرنا پیند ک سر آپ کس طرح کی چھٹی کو ۵۔ کہال رہ رہے ہو آپ کے
	.مهنگا-حونشگوار ولی- تیزر فتار-تھکا	واقع (تہیں) ۔ په شور والا ۔ معم	ے پہلے / جب میں جوان	Past کل / پرسول	Ŀ	Prepositions Complex structures	00	خواب ر	مات ہماں رہ رہے ہو آپ سے ہو گی؟
	رنگ۔ تباہ کن۔		نثر / عام طور پرPRESENT گلے سال FUTURE	ا ً کل / ا <u>گلے دن /</u> ا		Comectives ایک ہاتھ بر۔ دوسرے ہاتھ بر۔ اس کے باوجود مزید براں۔ - اضافی طور بر	Beckfoot Upper He	aton	۲ تعطیلات کیوں اہم ہیں؟
						5,55 6			

Infinitive	English	present	perfect (I have done)	imperfect (I was / used to)	future (I will do)	conditional (I would do)
سیر کرنا	to travel	سير كره أكرتي	سيررچكا/ يجكى	سير كر تا تقا / تقى	سير كرول گا/ گي	سير کرناچاموں گا / گي
رينا	to stay	ريتا /رېتى بهول	ره چِکا / چِکی	ر بتا تھا/ تھی	ر ہوں گا/ گی	ربناچاہوں گا
عاتا	to go	جاتا / جاتی <i>ہو</i> ں	حا يجلى / چکابو <u>ل</u>	عِالَىٰ تَقَى / عِاتَاتِهَا	جاتول کی / گا	جاناچاہوں گی/ گا
سكرنا	to do	میں کر	مين شي کيا	عن كردبا تقا	<u>ش کروں گا</u>	میں کروں گا
ركمتا	to have	ر کمتا / رسمتی مول	رکه پیما/ چکی	ر کھتا / رسکتی حقی	رکھوںگا / گ	ر مکنابیا ہوں گا گری
لينا	to take	ليمًا/ ليتي مور	لے چکا ہوں / لے بیکی ہوں	لباقفا/لي حقى	لولگا/گی	ليناچاہوں گا/ مگی



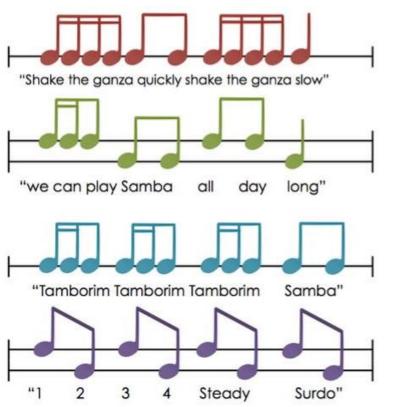
Comes from Brazil:







Rhythms:



Used for Carnivals:



Instruments:



Music Knowledge Organiser: Y8 HA HT5 – SAMBA

A. Key Words and Terms in Samba Music

CALL AND RESPONSE - one person plays or sings a musical phrase, then another person/group responds with a different phrase or copies the first one.

CYCLIC RHYTHM - a rhythm that is repeated over and over again.

IMPROVISATION - making up music as you go along, without preparation.

OSTINATO – a repeated pattern. Can be rhythmic or melodic; usually short.

PERCUSSION – Instruments that are mostly hit, scraped or shaken to produce sound. Samba uses many percussion instruments which together are called a BATERIA.

POLYRHYTHM – the use of several rhythms performed simultaneously, often overlapping each other to create a thick texture.

PULSE - a regular beat that is felt throughout music

RHYTHM – a series of notes of different lengths that create a pattern. Usually fits with a regular beat or pulse.

SYNCOPATION – accenting or emphasising the weaker beats of the bar (often a half beat (quaver) followed by a full beat (crotchet)) giving the rhythm an OFFBEAT feel.

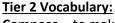
SAMBISTA – the leader of a Samba band or ensemble, often signalling cues to the rest of the band of when to change sections within the music with an APITO (Samba whistle)

B. Form and Structure of Samba

Samba music often starts with an INTRODUCTION often featuring CALL AND RESPONSE RHYTHMS between the Samba Leader and ensemble. The main Ostinato rhythm of Samba is called the GROOVE when all the instruments of the Samba Band play their respective rhythms over and over again (CYCLIC RHYTHMS) forming the main body of the piece. The GROOVE is broken up by BREAKS - 4 or 8 beat rhythms providing contrast and MID SECTIONS — one or two instruments change the rhythm of their ostinato and the others stay the same or stop. Sometimes BREAKS and MID SECTIONS feature a SOLOIST who "shows off" their rhythms. The SAMBISTA must signal to the group when to change to a different section which is normally done with an APITO (Samba Whistle — loud!). A piece of Samba can end (this section is called the CODA) with either a CALL AND RESPONSE pattern or a pre-rehearsed ending phrase of rhythm. The FORM AND STRUCTURE of a piece of Samba may look like the following:

	Intro	Groove	Break	Groove	Mid-Section	Groove	Mid-Section	Groove	Break	Groove	Coda
C. Texture of Samba Music				D. Dynamic	s of Samba Music		<u>E.</u>	Tempo of Samba	a Music		
Texture varies in Samba music, often MONOPHONIC where a single			The dynamic	The dynamics of Samba music are normally VERY LOUD – it is			Samba music	Samba music is generally FAST at around 104			
	rhythm is heard as in CALL AND RESPONSE sections, sometimes			music design	music designed to be performed outdoors at carnivals and is			bpm and kee	ps a constant tem	npo to assist the	
	POLYPHONIC where sections of the Samba band play different			played by lar	rge numbers of in	strumentalists an	d to accompany	dancers or pr	ocessional nature	e of the music.	
	rhythms (OSTINATOS) creating CROSS-RHYTHMS (when two rhythmic			c dancers and	dancers and processions with large audiences watching and			Sometimes the SAMBISTA (Samba leader) uses			
	patterns that "cor	nflict" with each	other occur simu	ltaneously)	listening. So	metimes, a CRES	CENDO is used at	the end of a piece	(TEMPO) RUI	BATO – tiny fluctu	uations in tempo
-											

of Samba music for dramatic effect.



Compose – to make
Contrast – different
Select - to choose
Recognise – know what
something is.

Samba is a musical genre

and dance style with its

roots in Africa via the

West African slave trade

and African religious

traditions. Samba is an

expression of Brazilian cultural expression and

is a symbol of carnival.

Samba schools formed and compete bringing people together.

Respond – to answer Explore – to find out Repeat - do it again Demonstrate - show it



REPINIQUE

POLYRHYHM or a POLYRHYTHMIC TEXTURE.

SURDO

creating a thick texture of interweaving and interlocking rhythms - a



TAMBORIM





F. Instruments, Timbres and Sonorities of Samba
CHOCOLO RECO-RECO



APITO



AGOGO BELLS

for expressive effect.

CAIXA DE GUERRO



Knowledge Organiser: D&T Year 8 Emoji Clock



board. To delete part of a

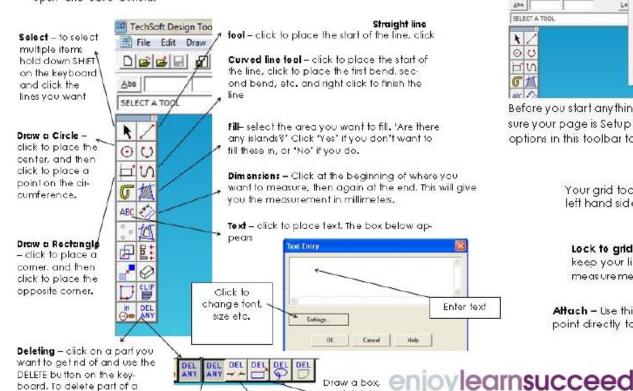
DEL ANY icon.

shape, click and hold on the

Designing a CAD/CAM Emoji Style clock using Techsoft Design, the laser cutter and Stika machine.



The drawing tools are all located on the right t At the top of your screen here, you will also fin 'Open' and 'Save' buttons.

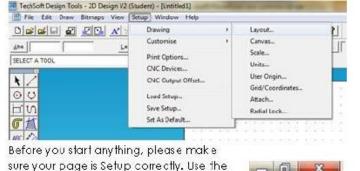


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of a line

the contents

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Your grid tools are all located on the

left hand side of your screen.

options in this toolbar to do this.

Lock to grid - Keep this on to keep your lines straight and measurements accurate

Attach - Use this tool to attach one point directly to another

Zoom in/ Out

DESIGN

GRID STEP

LOCK LOCK

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last media ⊕ □ ○ □

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UNDO DEL

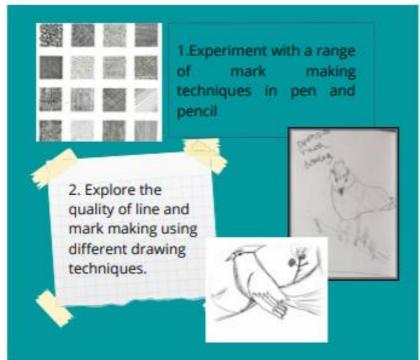
LAST -

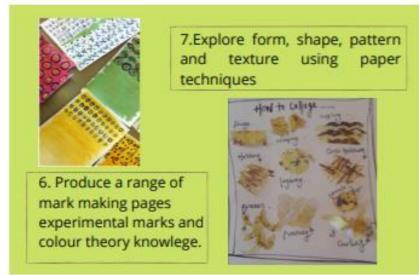
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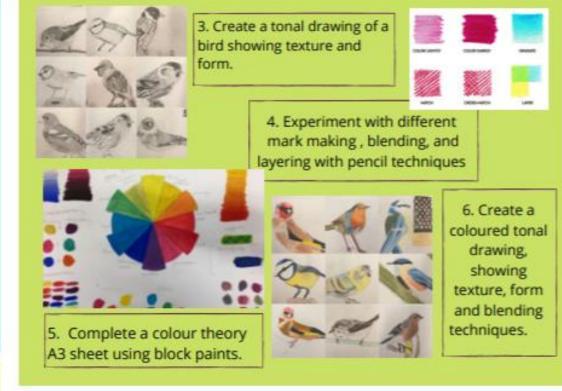
Undo - Undo or Delete your last move.



Knowlege Organiser: Year 8









making to add to your bird.

10. Add patterns inspired by mark

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





Year 8 British and International Cuisine Knowledge Organiser

British Cuisine



The United
Kingdom consists
of four countries;
England, Wales,
Scotland and
Northern Ireland.



Although Britain imports many of the foods we eat, we still produce crops such as barley, wheat and potatoes. Livestock farming is important too, with chickens, turkeys, beef and dairy cows, pigs and sheep reared for food.

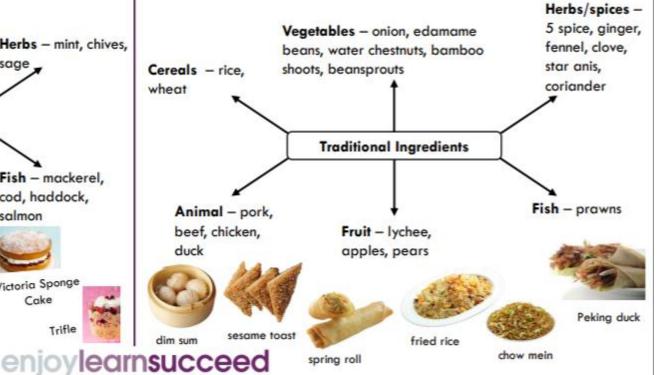
Vegetables - potatoes, carrots, onion, parsnips, leeks, Cereals - barley, Herbs - mint, chives, sprouts wheat, oats, rye sage **Traditional Ingredients** Animal - beef, Fish - mackerel, lamb, pork, chicken, cod, haddock, Fruit - apples, strawberries, eggs, milk, cream salmon plums, pears, blackcurrants les and Pasties Victoria Sponge Fish and Chips Fruit Crumble and Sunday Roast Cake Custard Sausage and Mash Full English Break.....

Chinese Cuisine





Chinese food is quick to make. Food is stir fried in a wok or steamed in a bamboo steamer – both are healthy ways of cooking.





Year 8 British and International Cuisine Knowledge Organiser

Indian Cuisine CHINA PANOSTAN INDIA Buy of Banque In the food In the



India is a mainly agricultural country growing crops:

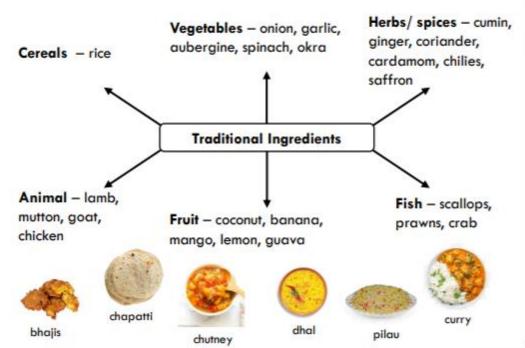
- In the north of India, wheat is the staple food and is used to make chapati.
- In the south, rice is the staple food, and curries with sauce.

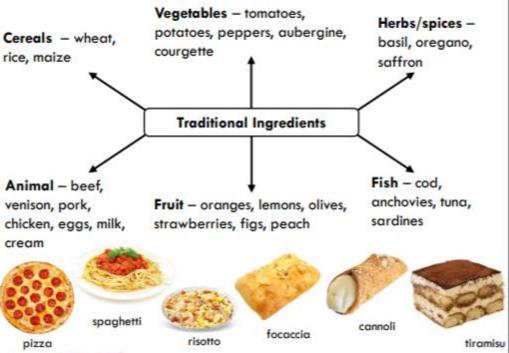




Different foods are produced in different areas of Italy:

- The north is cooler and mountainous; rice is grown, and the land is used to rear animals for cured meats.
- The south is hotter, so crops such as tomatoes, olives and lemons are grown.





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



	Key words/ terms:
Applique	A decorative technique where additional shaped fabrics are sewn on to create a pattern or
Embellishment	An additional decorative feature. I.e: 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 –
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
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,
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

Hanfin	linates.	/ formth an	reading:
1180	THE REST	/ 1111111111111111111111111111111111111	restolling:

Five Day of the Dead Facts (Día de los Muertos) - YouTube

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



Substitute SCAMPER - Reverse / Reconsige Recon	1224
apple molecular gastronomy savory Savory Self-betroot (andly betroot (betroot (betro	
1853	
<u> </u>	

	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

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





HAND EMBROIDERY STITCHES

Back Stitch Straight Stitch

Outline Stitch

Cross Stitch

Lazy Daisy Stitch French Knot Stitch Blanket Stitch

Herringbone Stitch



















Technical skills covered:

Pattern drafting

Felt applique (hand)

Embellishment (embroidery etc.)

Fabric cutting

Reverse applique (hand)

Fabric painting

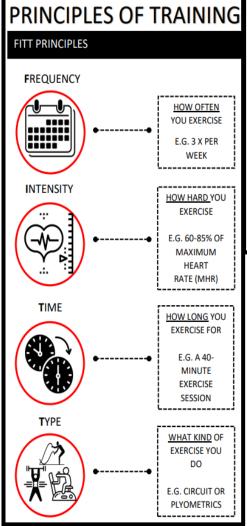
E-textiles

Useful links/ further reading:

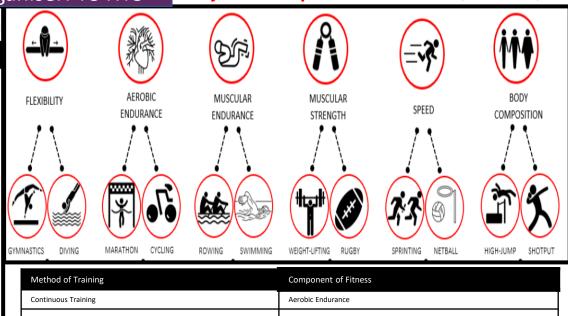
Hand Embroidery for Beginners - Part 2 | 10 Basic Stitches | Handi-Works #52 - YouTube

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				



THE MATHS

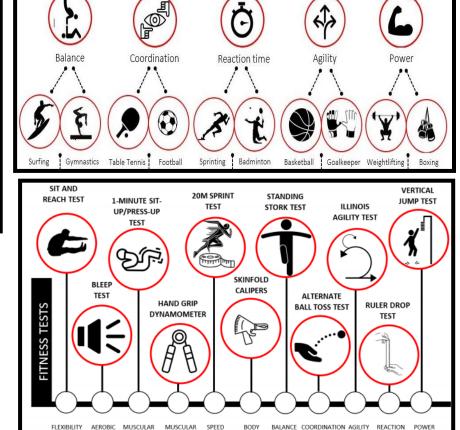


Method of Training	Component of Fitness
Continuous Training	Aerobic Endurance
Fartlek	Aerobic Endurance
Interval Training	Aerobic Endurance/Speed
Circuit Training	Aerobic Endurance/Muscular Strength/Muscular Endurance
Hollow Sprints	Speed
Accelerative Sprints	Speed
SAQ	Speed/Agility
Plyometrics	Power/Muscular Strength
Resistance Training	Power/Muscular Strength/Muscular Endurance
Free Weights	Power/Muscular Strength/Muscular Endurance
Static Stretching	Flexibility
Dynamic Stretching	Flexibility
Proprioceptive Neuromuscular Facilitation (PNF)	Flexibility

WHAT HEART RATE (HR) DOES A 38 YEAR OLD NEED TO BE WORKING BETWEEN TO BE EXERCISING AEROBICALLY? REMEMBER AEROBIC ZONE = 60-85% MAXIMUM HEART RATE (HR MAX) STEP 1 - WORK OUT STEP 3 - WORK OUT STEP 2 - WORK OUT **AEROBIC** MAX HR 85% OF HR MAX 60% OF HR MAX TRAINING HR ZONE FOR A 220 - 38182 X 0.6 (60/100) 182 X 0.85 (85/100) 38 YEAR OLD: 109-155 bpm **ANSWER = 182** ANSWER = 60% = **109 ANSWER = 155**

Borg Scale – Rate of Perceived Exertion (RPE) – value x 10 to find out heart rate.

Max Heart Rate – 220 - age



COMPOSITION



