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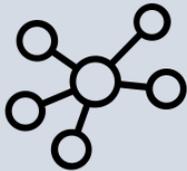


THE CEDARS
ACADEMY
Lionheart Educational Trust

Knowledge Organiser Booklet

Year 7
Spring Term

Ways to use your knowledge organiser

	Look, Cover, Write, Check	Self Quizzing	Mind Maps	Paired Retrieval	Definitions to Key Words
Step 1	<p>Look at and study a specific area of your knowledge organizer.</p> 	<p>Use your knowledge organizer to create a mini quiz. Write down questions using your knowledge organizer.</p> 	<p>Create a mind map with information from your knowledge organiser.</p> 	<p>Like self quizzing, use your knowledge organizer to create a quiz.</p> 	<p>Write down the key words and definitions.</p> 
Step 2	<p>Cover or flip the knowledge organizer over and write down everything you remember.</p> 	<p>Cover or flip the knowledge organizer over and answer the questions and remember to use full sentences and key words/vocabulary.</p> 	<p>Add pictures to represent different facts, knowledge. Try to categorise different areas in different colours.</p> 	<p>Ask a family member to ask you the questions and tell you which ones you get right and which ones you get wrong.</p> 	<p>Try not to use your knowledge organiser to help you.</p> 
Step 3	<p>Check what you have written down. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.</p> 	<p>Check your answers. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.</p> 	<p>Try to make connections that link information together.</p> 	<p>Following the quiz, summarise which areas you got wrong and need to revise further.</p> 	<p>Use a different coloured pen to check you work and correct any mistakes you may have made.</p> 

Greek Myths:	Norse Myths:	British Folklore:
The first written record of Greek mythology is The Iliad by Homer.	The Vikings believed that human beings inhabited Middle Earth, above Middle Earth (or Midgard) lived the gods in Asgard and below Midgard was the world of the dead.	The British Isles are rich with ancient legends of magic, monsters, warrior kings and noble outlaws.
The twelve great Olympian gods are named because they live on Mount Olympus and they are led by Zeus, king of the gods.	The three main Norse gods are Odin, Loki and Thor.	The early oral-poetic legends are Germanic in origin and were brought over with the Viking invaders. Beowulf is the most famous example of this.
Greek mythology also tells the story of the heroes of the great Greek quests: Hercules, Theseus, Jason, Odysseus and Perseus.	Valhalla is the name of Odin's massive mead hall, home to the great fallen Viking warriors.	The most famous British myths are the Arthurian legends of King Arthur and the knights of Camelot.
One of the most famous Greek epics is the story of Odysseus and Achilles and the Trojan war.	The Valkyries are beautiful young female warriors who bring the fallen Vikings to Valhalla.	Glastonbury Tor and Stonehenge are two sites associated with Pagan British myths.

Idioms Derived from Myths and Legends

- A Herculean task – this refers to a near impossible challenge because in order to redeem himself after accidentally killing his family, Hercules had to complete twelve 'impossible' labours (or tasks).
- Describing a problem as hydra headed, means that it is a complicated problem where one problem leads to another, just like the Hydra who grew another head each time one was chopped off.
- A Trojan Horse is a person or a group trying to overthrow something or someone from within, it refers to the wooden horse full of soldiers which was wheeled into the city of Troy to break the siege.
- Achilles heel – this refers to a person's weak point, so named after the spot on Achilles that was vulnerable, this same point is also called the Achilles tendon.
- The Midas Touch refers to King Midas for whom everything he touched turned to gold. A person with the Midas touch is a person who has the ability to succeed in every venture.
- Opening Pandora's Box – refers to Pandora whose curiosity led to her letting all the evils of the world out of a jar. When people talk of opening Pandora's box, they mean a situation is unpredictable.
- The face that launched a thousand ships – this refers to the beautiful Helen of Troy for whom a thousand ships were launched, in order to reclaim her for Troy.

Mythical Beasts

- The Sirens – half women/half fish (think mermaids) whose beautiful singing tempts seamen into crashing on rocks.
- Grendel – a swamp-dwelling, man-eating Anglo Saxon monster of enormous size
- Medusa (or a Gorgon) a human shaped female with living snakes for hair. Looking into her eyes would turn the looker to stone.
- The Cyclops – a man-eating giant with just one eye.
- The Griffin – a creature of British folklore that has the body of a lion and the wings and head of an eagle.
- The Minotaur – a terrifying beast with the body of a human and the head of a bull, he was kept trapped in a labyrinth and virgins sacrificed to him.

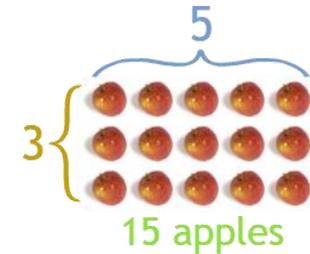
The Olympians

Zeus/ Jupiter	Poseidon/ Neptune	Hades/ Pluto	Hera/ Juno	Demeter/ Ceres	Aphrodite/ Venus	Apollo	Artemis/ Diana	Athena/ Minerva	Dionysus/ Bacchus	Hermes/ Mercury	Hephaestus/ Vulcan	Ares/ Mars
The Thunder God	God of the sea	Lord of the dead	Queen of the Gods	Goddess of the harvest	Goddess of love	God of music, poetry and art	Goddess of the hunt	Goddess of wisdom and warfare	God of wine	Messenger of the Gods	God of the forge	God of war

Year 7 Epic Poetry and Classical Narratives Vocabulary Lists

wily	pursuit	prophetic	hubris
roams	brutal	irresistible	mercy
petrify	realm	wisdom	consequence
magnificence	pity	sacrifice	taunt
subdue	heir	wondrous	eternal
labyrinth	nymphs	sacred	toiled
noble	dismal	insatiable	loathsome
feats	metamorphosis	pride	recoiled
boisterous	radiant	accomplished	grim

Multiplication	The repeated addition of the same number. Also called scaling and timesing. E.g. $3 \times 5 = 3 + 3 + 3 + 3 + 3$
Area	The amount of space inside the boundary of a two-dimensional shape.



Factor	Factor \times Factor = Product
Natural Number	Positive integers.
Multiple	To be in the times-table of. E.g. In the examples to the right; 15 is a multiple of both 3 and 5.
Product	The answer to a multiplication calculation.

Factor Factor Product

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$$3 \times 5 = 15$$

Reciprocal	The multiplicative inverse of a number, which is found by dividing one by the number. Also called the Multiplicative Inverse . The product of a number with its reciprocal is always 1. For example $2 \times \frac{1}{2} = 1$, $\frac{1}{3} \times 3 = 1$, $\frac{2}{3} \times \frac{3}{2} = 1$
Identity	Values, calculations or expressions that always have the same value.

The reciprocal of 5 is $\frac{1}{5}$ and the reciprocal of $\frac{1}{5}$ is

5

5 and $\frac{1}{5}$ are multiplicative inverses.

The reciprocal of $\frac{3}{4}$ is $\frac{4}{3}$ and the reciprocal of $\frac{4}{3}$ is

$\frac{3}{4}$

$\frac{3}{4}$ and $\frac{4}{3}$ are multiplicative inverses.

Negative number	A number less than zero.
Additive Inverse	The number with the same absolute value but opposite direction. E.g. 5 and -5 -0.7 and 0.7
Scale factor	A number used as a multiplier in scaling to show the relationship between one quantity and another.
Proportion	When two or more quantities are made bigger or smaller by the same scale factor they are in proportion.

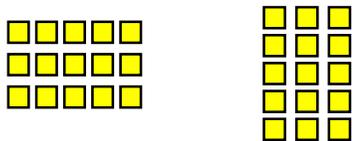
The Properties of Multiplication

The Commutative property of multiplication

$$a \times b \equiv b \times a$$

E.g.

$$5 \times 3 \equiv 3 \times 5$$

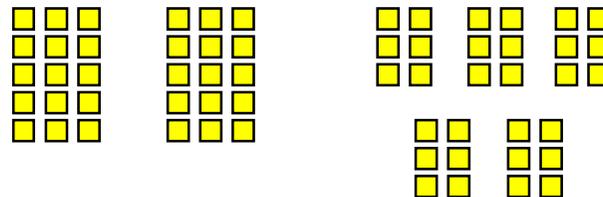


The Associative property of multiplication

$$a \times (b \times c) \equiv (a \times b) \times c$$

E.g.

$$2 \times (3 \times 5) \equiv (2 \times 3) \times 5$$

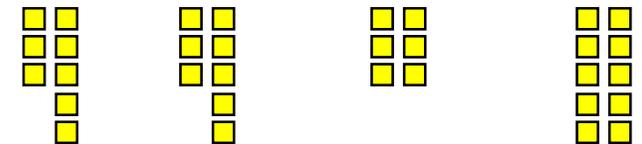


The Distributive property of multiplication

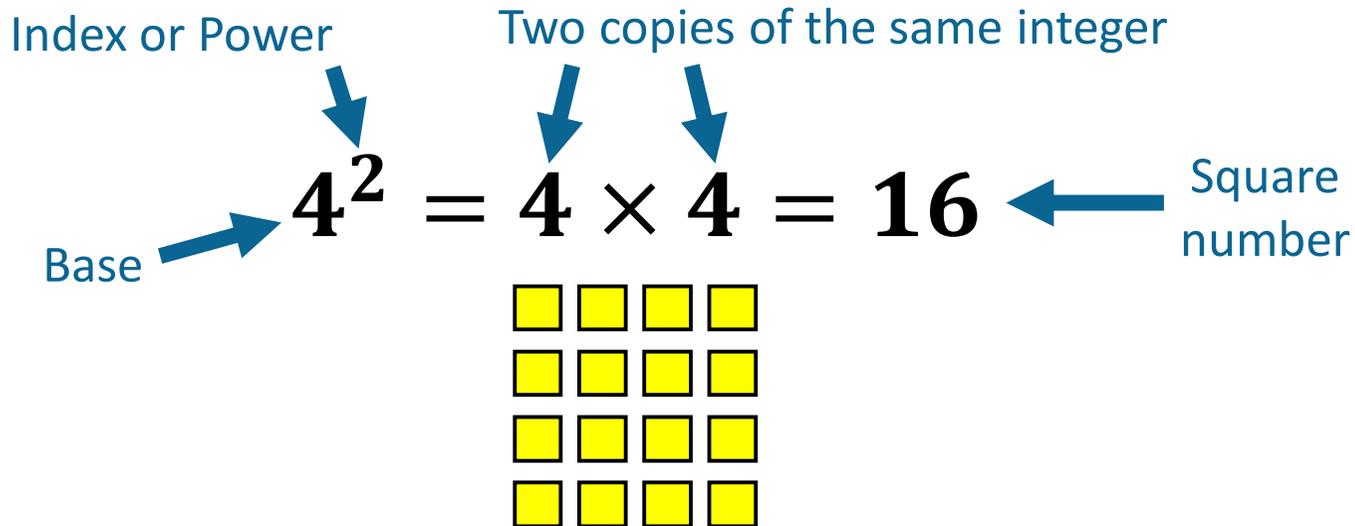
$$a \times (b + c) \equiv (a \times b) + (a \times c)$$

E.g.

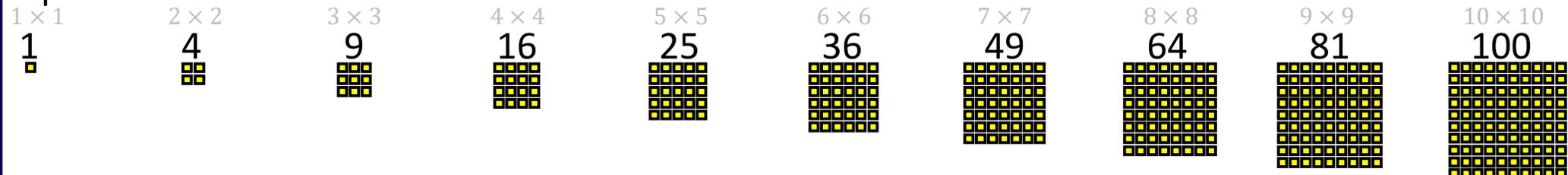
$$2 \times (3 + 5) \equiv (2 \times 3) + (2 \times 5)$$



Squaring	The process of multiplying two copies of a number.
Square number (perfect square)	The result of multiplying two copies of an integer. Often just called 'square number'.
Cubing	The process of multiplying three copies of a number.
Power / Index	The power (also called index) of a number tells you how many copies of the number should be multiplied. It is written as a small number to the right and above the base e.g 5^3 or a^2 .
Base	The number or term that is raised to a power.



Square numbers to know:



Division	<i>The inverse of multiplication.</i>
Dividend	<i>The number that is divided in a division calculation.</i>
Divisor	<i>The number that is doing the dividing.</i>
Quotient	<i>The answer when we divide one number by another.</i>

Dividend \longrightarrow 12

Divisor \longrightarrow 3

$$\frac{12}{3} = 4$$

Quotient \longleftarrow 4

Brackets (and other groups) change the priority of the operations.

Brackets & other grouping

Indices & Roots

Multiplication & Division

Addition & Subtraction

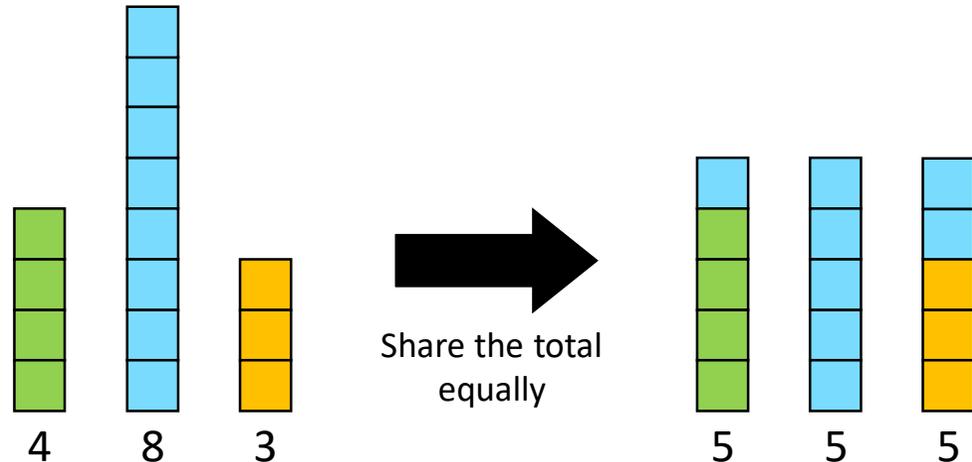
Order of priority



Where operations have equal priority, we work from left to right.

Mean

The sum of a set of numbers, or quantities, divided by the number of terms in the set.



Adolescence and Puberty

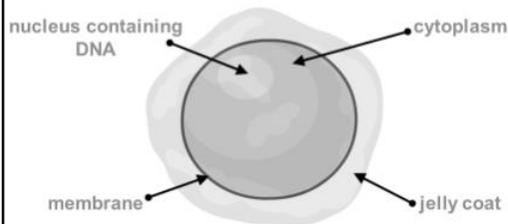
Adolescence involves both emotional and physical changes

Puberty is just the physical changes

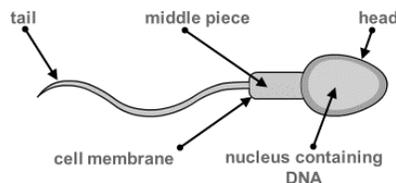
The changes that happen during puberty are caused by **sex hormones**

Changes in boys	Changes in girls
sudden increase in height (growth spurt)	sudden increase in height (growth spurt)
hair starts to grow on body, including pubic hair	hair starts to grow on body, including pubic hair
voice deepens	breasts grow
testes start to make sperm and hormones	ovaries start to release eggs and make hormones
shoulders broaden	hips widen
sexual organs get bigger	periods start

Female Sex cells – egg



Male Sex cells – sperm



Fertilisation and Implantation

- The egg gets fertilised in the oviduct (sperm enters egg).
- The fertilised egg divides several times to form a ball of cells (embryo).
- The embryo attaches to the lining of the uterus (implantation) and begins to develop into a baby

Main Stages of the Menstrual Cycle

1. Blood leaves the uterus through the vagina
2. Uterus lining begins to re-grow and become spongy
3. An egg cell is released from an ovary
4. If egg cell is fertilised, it will implant in uterus lining. If not, the lining will break down and the cycle will start again

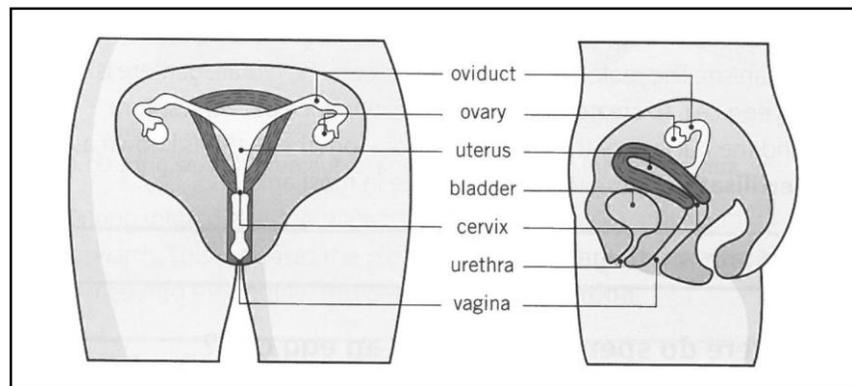
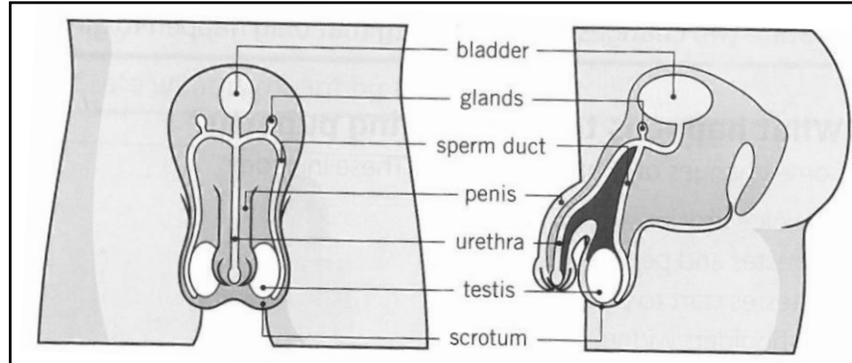
Structures Inside the Uterus

PLACENTA	Organ where substances pass between Mother's blood and the foetus's blood. Stops harmful substances reaching the foetus.
UMBILICAL CORD	Connects the foetus to the placenta
FLUID SAC	Acts as a shock absorber, protecting the foetus from bumps.

Contraception

Taking steps to avoid pregnancy. Most common types:

1. Condom – Stops sperm entering vagina
2. The pill – stops ovulation



Parts of the Male Reproductive system

Testes	Produce sperm cells. Contained in a bag of skin called the scrotum.
Glands	Produce nutrients to help keep sperm alive.
Sperm Ducts	Tubes that carry sperm from testes to penis.
Urethra	Tube that carries urine from bladder out of the body or sperm from the sperm duct.
Penis	Carries urine and semen out of the body. Swells with blood and stiffens during intercourse.

Parts of the Female Reproductive System

Ovaries	They contain egg cells. One is released each month.
Oviducts	Carry egg to the uterus.
Uterus	Where the baby develops until it is born.
Vagina	Receives the sperm during sexual intercourse.
Urethra	Tube that carries urine from the bladder out of the body.
Cervix	Ring of muscle at the entrance to the uterus. Keeps baby in place during pregnancy.

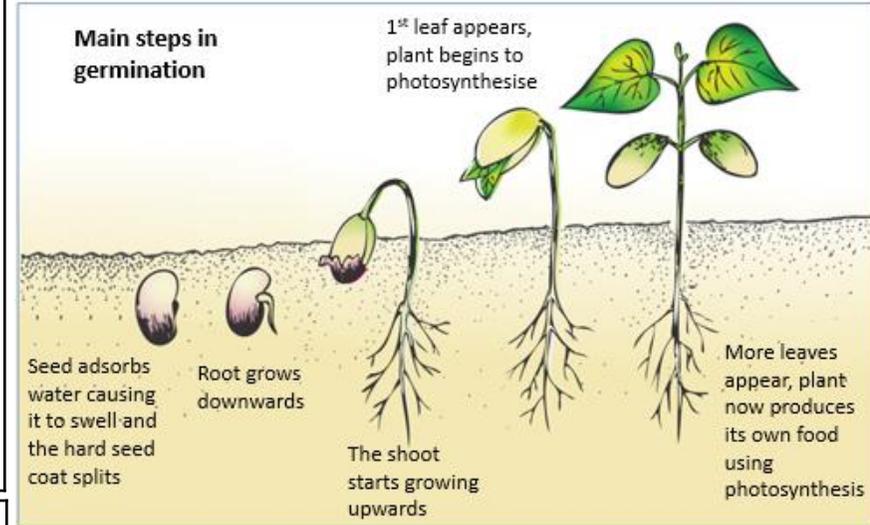
Keyword	Definition
Pollen	Contains the plant male sex cells found on the stamens.
Ovules	Female sex cells in plants found in the ovary.
Pollination	Transfer of pollen from the male part of the plant to the female part of a plant. Pollen is usually carried by insects or wind from one flower to another.
Fertilisation	The process by which the male (pollen) and female (ovule) sex cells meet. This develops into a seed and the ovary develops into a fruit.
Germination	If a seed has the correct resources (water oxygen & warmth, it will start to grow. The period of time in which the seed begins to grow is known as germination.
Seed	Structure that contains the embryo of a new plant.
Fruit	Structure that the ovary becomes after fertilisation, which contains seeds.
Carpel	The female part of the flower, made up of the stigma where the pollen lands, style and ovary.

Insects are important in pollination. Bees are currently threatened and it's important to help them survive. Without them, we would have issues with growing our food.



Four methods of seed dispersal:

- Wind
- Animal
- Water
- explosive



Adaptations of insect pollinated flowers

often sweetly scented with nectar - to attract insects

large, brightly coloured petals - to attract insects

pollen often sticky or spiky - to stick to insects

moderate quantity of pollen - less wastage than with wind pollination

anthers firm and inside flower - to brush against insects

stigma inside the flower - so that the insect brushes against it

stigma has sticky coating - pollen sticks to it



Adaptations of wind pollinated flowers

no scent or nectar - no need to attract insects

small petals, often brown or dull green - no need to attract insects

pollen light and smooth - wind can blow it and stops it clumping together

pollen produced in great quantities as most of it doesn't reach other flowers

anthers loosely attached and dangle out - to release pollen into the wind

stigma hangs outside the flower - to catch the drifting pollen

stigma feathery or net like - to catch the drifting pollen



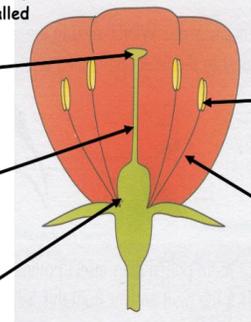
The Pistil or Carpel

The female part of the flower is called a pistil.

Stigma
The top of the Carpel is called the Stigma. What do you notice when you touch it?

Style
The Style acts in the same way as a stem and holds up the Stigma.

Ovary
The ovary contains the eggs.



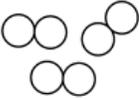
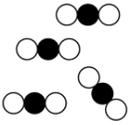
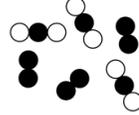
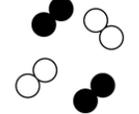
The Stamen

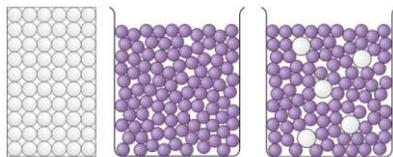
The male parts of the flower are called Stamens.

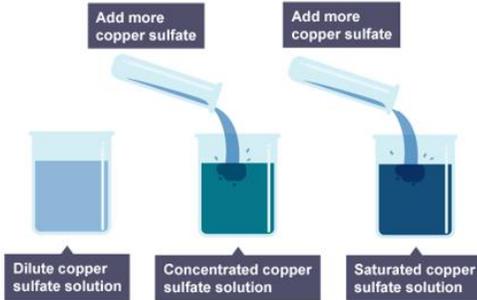
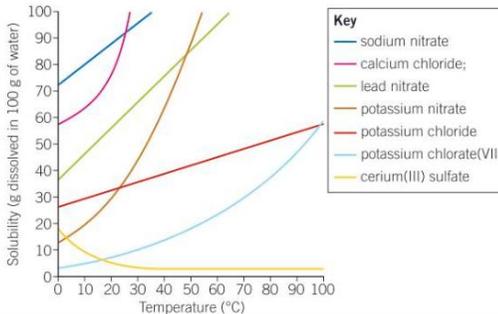
Anther
The top of the Stamen is called the Anther.

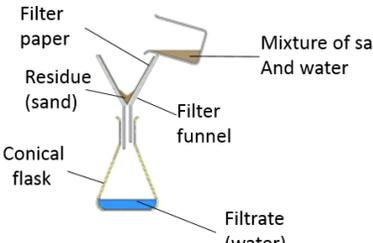
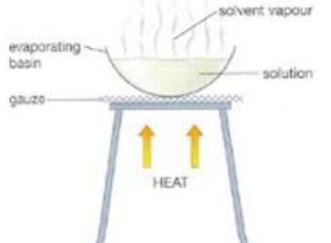
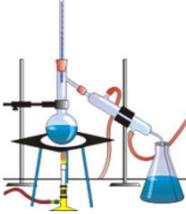
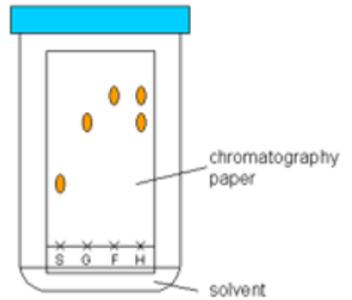
Filament
The Filament acts in the same way as a stem and holds up the Anther.

Key word	Definition
Element	a substance that cannot be broken down into other substances
Atom	smallest part of an element. Every element is made up of one atom/ all atoms in an element are the same
Compound	is made of two or more elements chemically combined. E.g. carbon dioxide & water.
Mixture	is made of two or more elements/ compounds not chemically combined
Molecule	a group of two or more atoms strongly joined together e.g. O ₂ . Weak forces hold molecules together
Pure	A material that is composed of only one type of particle e.g. elements or compounds
Impure	A material that is composed of more than one type of particle e.g. a mixture
Solution	A mixture of a solute dissolved in a solvent
Solute	The solid or gas that's dissolved in a liquid
Solvent	The substance, usually a liquid that dissolves other substances
Evaporation	The change of state from liquid to gas that occurs when particles leave the surface of the liquid only
Distillation	A process for separating the parts of a liquid solution. The solvent is heated and the gas is collected and cooled
Filtration	The act of pouring a mixture through filter paper, in attempts to separate pieces of a solid that are mixed with a liquid or solution
Chromatography	A technique used to separate mixtures of coloured compounds

Pure substances and mixtures		
A pure element		Pure substances have a fixed melting and boiling point.
A pure compound		
Mixture of elements and compounds		Mixtures (impure substances) do not have a fixed melting point.
Mixture of elements		
Mixture of compounds		

Solutions		
Solutions	Sugar is soluble in water. This means it dissolves in water. The resulting mixture of the solute (sugar) and solvent (water) particles is called the solution.	 <p>Particles in solid sugar Particles in liquid water Particles in sugar solution</p>
Dissolving	During dissolving, the solvent particles surround the solute particles and move them away so they are spread out in the solvent.	

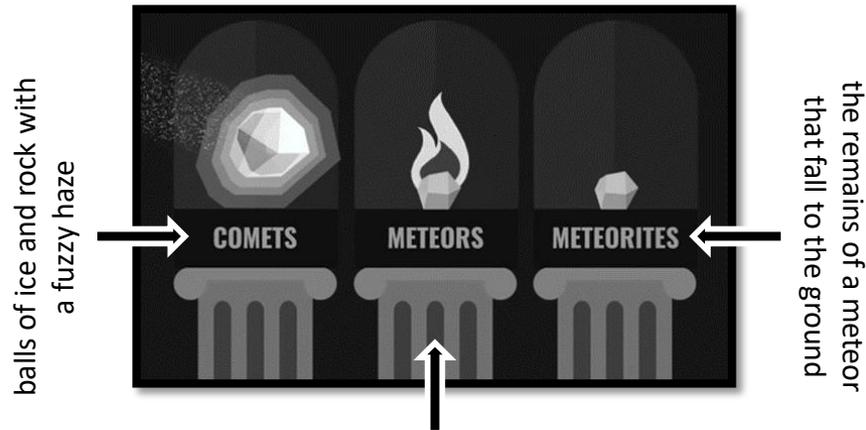
<p>Solubility</p> <p>A saturated solution is a solution which no more solute will dissolve. The solution contains the maximum mass of a substance that will dissolve.</p> <p>There is always some undissolved substance in the container.</p>	
<p>Insoluble</p>	<p>Substances that cannot dissolve in water</p>
<p>Solubility</p>	<p>The maximum mass of solute that dissolves in 100g of water.</p>
<p>Solubility curves</p> <p>Every substance has a different solubility as shown by the solubility curve opposite.</p> <p>Most substances get more soluble as temperature increases.</p>	

<p>Separating techniques</p> <p>Filtration</p> <p>If you have a mixture of an insoluble solids and a liquid then the mixture can be filtered.</p>	
<p>Evaporation</p> <p>Evaporation separates salt from sea water. Once all of the water particles have left the surface of the solution, solid salt remains.</p>	
<p>Salt has a much higher boiling point than water. You can use the difference in properties to separate the two substances by distillation. Uses boiling and condensing to separate substances with different boiling points.</p>	
<p>Simple chromatography is carried out on paper. It can be used to separate dyes in food colourings. A spot of the mixture is placed near the bottom of the chromatography paper. As the solvent soaks up the paper it carries the mixtures with it. Different components of the mixture will move at different rates which separates the mixture out.</p>	

Objects in the Night Sky

Satellites are anything that orbit the Earth, they can be **natural** or **artificial**.

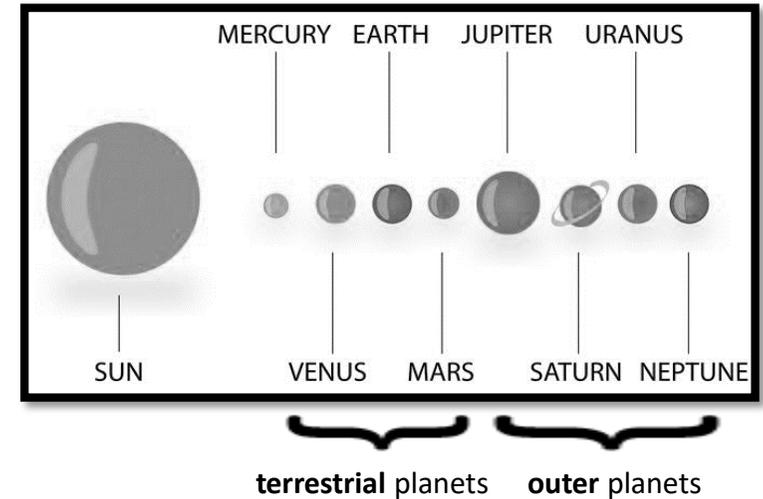
There are five **planets** that we can see from Earth with the naked eye: Mercury, Venus, Mars, Jupiter and Saturn.



small balls of dust or rock that burn up in the Earth's atmosphere producing streaks of light

Most of the lights in the sky are **stars** in our **galaxy**, the **Milky Way**. We can talk about their distances from Earth in terms of **light years**: the distance light travels in a year.

There are billions of stars in each galaxy. The Milky Way is just one of billions of galaxies in the **universe**.



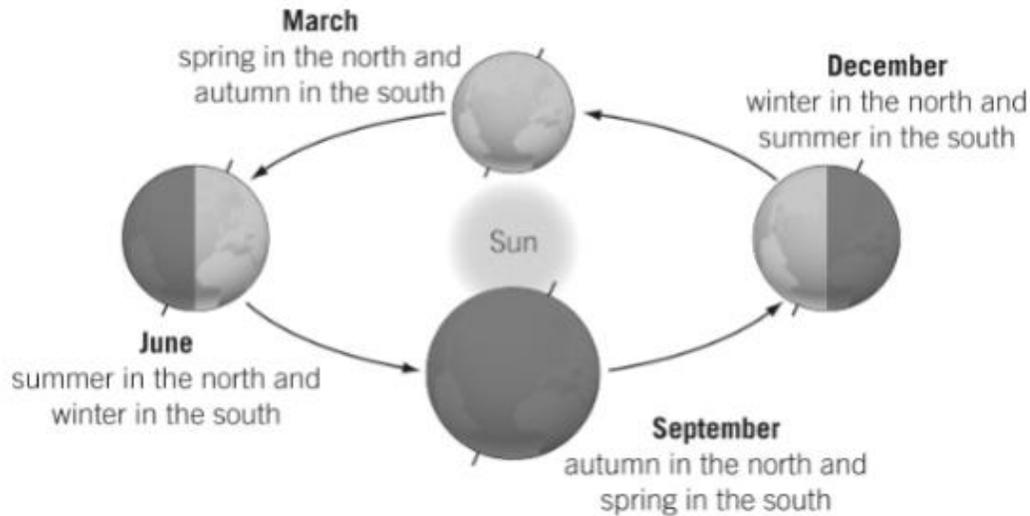
The Solar System

There are eight planets in our solar system, which orbit the Sun in an **ellipse** shape.

The **asteroid belt** is between Mars and Jupiter. It contains thousands of pieces of rock.

The terrestrial planets are made from **rock**, whereas the outer planets are **gas giants**.

The solar system was formed when **gravity** pulled gas and dust together to first form our Sun about 5 billion years ago. Planets formed in a similar way afterwards.



The Moon

The same half of the Moon is always lit up by the Sun, but how much we see from Earth depends on where it is in its orbit (see diagram to the right).

The light from the Sun can be blocked when the Earth comes between the Sun and the Moon. This is called a **lunar eclipse**.

When the Moon comes between the Sun and the Earth, sunlight cannot reach parts of the Earth's surface. At these points there is a **solar eclipse**.

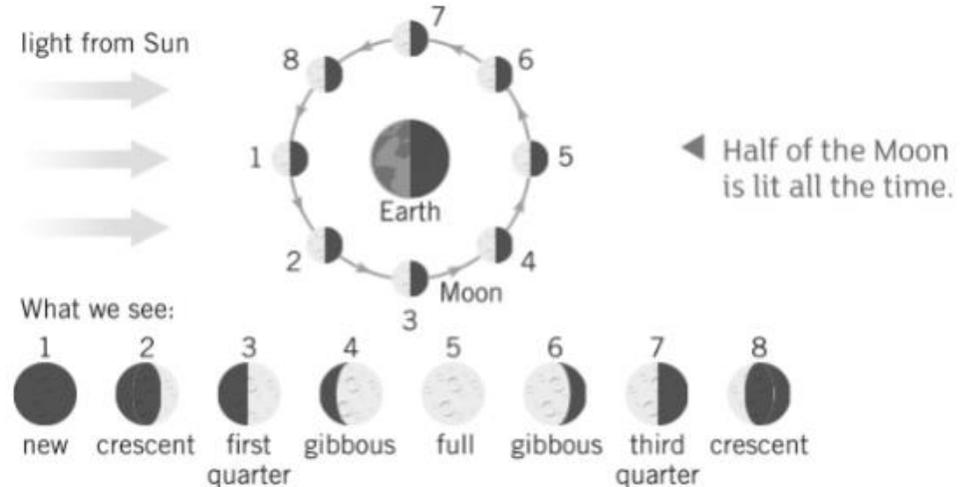
The Earth and Seasons

The Earth spins on its **axis**, tilted at 23.4° . It takes 24 hours (one day) to fully rotate.

This spin gives us **day** and **night**: day when you face the Sun, night when you face away.

The Earth orbits around the Sun approximately once every 365 days (one **year**).

The tilt gives us **seasons**: it's summer when a hemisphere tilts towards the Sun and winter when it tilts away. It's hotter in the summer as the days are longer and the Sun warms the Earth for longer. The rays from the Sun are more concentrated than they are in winter.



Religion and the Church	Life in villages and towns	Women in Medieval England
<p><u>What did people believe?</u></p> <ul style="list-style-type: none"> • Almost everyone in England were Christians and believed in God, heaven and hell • People were scared of going to Hell and huge Doom paintings showed the horrors that awaited sinners • The Pope was the head of the Catholic church and seen as God's representative on earth • Most people would attend church regularly to take part in mass or confess their sins to the priest 	<p><u>Medieval villages</u></p> <ul style="list-style-type: none"> • Most people in medieval England were poor peasant farmers (villeins) who lived in villages • The lord of the manor was the most powerful man in the village and owned most of the land • Villeins would have to work on their local lord's land for three days per week • Villages usually included a manor house, church, mill and workshops for a blacksmith and carpenter • Villeins were not allowed to leave the village as they were owned by their lord 	<ul style="list-style-type: none"> • Women were usually under the control of men, young women were controlled by their fathers and once married their husbands took over • Girls married at a young age and could be trapped in a violent marriage if they were unlucky • Many women had 5-6 children by their mid-20s and teenage pregnancies were encouraged • Many women died during childbirth and many children did not survive into adulthood
<p><u>Key People</u></p> <p><u>Priests</u> – head of the local church in villages and towns. Performed important ceremonies such as baptisms, marriages and funerals. Collected charity. Helped organise community events.</p> <p><u>Monks and Nuns</u> – Lived separately from society and dedicated their lives to God. They lived simple lives. Monks were able to read and write and speak Latin. Both monks and nuns provided charity to those in need.</p>		<p><u>Advantages for women</u></p> <ul style="list-style-type: none"> • Women would not have to fight for the king in times of war • High-ranking women could inherit their husband's land and title • Women who beat their husband were rarely taken to court as it was too humiliating • When husbands and wives commit a crime together she can escape punishment by claiming she was just obeying her husband
<p><u>Importance of religion</u></p> <ul style="list-style-type: none"> • Religion dominated medieval peoples' lives and many people attended mass every day • Before Science developed religion helped to explain matters people did not understand • The Church had its own courts where people could be fined for non-attendance • People gave one-tenth of their crops or earnings to the church as a tithe (tax) 	<p><u>Life in medieval towns</u></p> <ul style="list-style-type: none"> • By the late 14th century there were about 20 towns in England with a population over 3,000 • London was the largest town with about 40,000 people • A wall surrounds the town with a gatehouse at its entrance • Towns were busy places with plenty of shops and merchants, knights and noblemen 	

Matilda – the forgotten queen (1135)	King John and Magna Carta (1215)	Eleanor of Aquitaine
<ul style="list-style-type: none"> • Matilda was the daughter of king Henry I and heir to the English throne • She was experienced and multi-lingual but faced opposition due to being a woman • When her father died in 1135 her cousin Stephen raced to crown himself king • There followed years of conflict between the supporters of Matilda and Stephen • Matilda was criticised for being arrogant and refusing to listen to advice but this was probably because she was a woman • Eventually a deal was struck, Stephen would be king but Matilda’s son Henry would inherit the throne after Stephen’s death • When her son, Henry II, was on the throne Matilda ruled Normandy very effectively 	<ul style="list-style-type: none"> • John is now viewed as one of the worst kings in English history • The English barons revolted against John due to the high taxes they were being forced to pay and his tyrannical rule • In 1215 they forced John to sign the Magna Carta where he promised to give noblemen a fair trial before they were imprisoned and not to impose unfair taxes • The rights protected by the Magna Carta only applied to freemen so many Englishmen were not affected by the charter • However, the Magna Carta provided the basis for many of the rights and freedoms we now enjoy in England 	<ul style="list-style-type: none"> • Eleanor was queen of both France and England during her lifetime • In 1137 she was married to the king of France but this marriage was annulled in 1152 after she failed to produce a male heir • Eleanor then married Henry (Count of Anjou) who was the heir to the English throne • Henry became king of England and he and Eleanor had eight children together between 1152-66 • Eleanor was involved in a revolt against her husband in 1173 and was imprisoned for 16 years as a result • When Henry died, Eleanor was released and continued to play an important role during her son’s (Richard and John) reign
<h3>Thomas Becket and the murder in the Cathedral (1170)</h3>		<h3>The Black Death (1348-51)</h3>
<ul style="list-style-type: none"> • King Henry II (1154-89) was frustrated by the power of the church in medieval England • Henry appointed his friend Thomas Becket as Archbishop of Canterbury to increase his influence over the church • However, as Archbishop Becket became very religious and refused to obey Henry • Eventually, Henry flew into a rage and said ‘Will no-one rid me of this troublesome priest’ • Four knights overheard Henry’s outburst, rode to Canterbury and murdered Becket • Becket became a saint and Henry was humiliated and had to beg for forgiveness 	<p>King John who was forced to sign the Magna Carta in 1215</p>	<ul style="list-style-type: none"> • The Black Death arrived in England carried by rats and people from ships in Europe • The disease spread quickly across England and 70% of its victims never recovered • The population of England reduced from 5 million to 3 million within just a year • There were fewer workers following the Black Death so peasants were able to ask for higher wages • The feudal system broke down as peasants left their manor in search of higher wages • Some lords moved from growing wheat to raising sheep on their land as this required fewer expensive workers

The Peasants' Revolt (1381)	Joan of Arc (1412-31)	Problems for medieval monarchs
<p>Key causes of the revolt</p> <ol style="list-style-type: none"> 1. The Statute of Labourers (1351) had tried to prevent peasants asking for higher wages 2. Villeins (poorer peasants) were angry that they had to work on their local lord's land for free and pay rent as well 3. A new Poll tax had been introduced which the peasants hated and could not afford 4. John Ball, a radical priest, began to preach that all men were created equal challenging the feudal system 	<ul style="list-style-type: none"> • Joan was born into a poor farming family in 1412 in north-east France in the midst of the Hundred Years War between the French and the English • At the age of 16 she claimed that religious saints had visited her and told her to go to the French Dauphin (Charles) and tell him to let her lead an army to drive the English out of France • 1428 Joan meets with Charles and convinces him to let her lead an army to relieve the town of Orleans which had been under siege from the English for six months 	<ol style="list-style-type: none"> 1. GENDER – it was very difficult for a woman to rule as queen in medieval England as most people believed that women were too weak Matilda should have become queen in 1135 but the prejudice and sexism of the time meant that her cousin Stephen became king 2. THE CHURCH – medieval monarchs had to share power with the Catholic church which was rich and powerful Henry II tried to control the church by placing his friend Thomas Becket as Archbishop of Canterbury, but this was a disaster ending in Becket's murder
<p>Key events in 1381</p> <ul style="list-style-type: none"> • The revolt began in May 1381 in Fobbing, Essex when villagers attacked tax collectors • Riots spread across south-east England and by June 1381 thousands of peasants were marching on London to protest to the king • The rebels ran riot burning buildings and murdered the Archbishop of Canterbury, Simon Sudbury • When the king met the peasant army their leader Wat Tyler was killed but Richard promised to listen to their demands and persuaded them to return home 	 <p style="text-align: right;">Joan of Arc</p>	<ol style="list-style-type: none"> 3. THE BARONS – wealthy noblemen might challenge the power of the king and refuse to obey his commands King John was one of the worst English kings in history and was forced by the barons to sign the Magna Carta in 1215 promising to respect their rights 4. THE BLACK DEATH – killed millions of people in England during the 14th century which led to a shortage of labour and higher wages
<p>Consequences</p> <ul style="list-style-type: none"> • Richard II did not keep his promise and instead he ordered the ringleaders of the revolt to be arrested and executed • John Ball was captured and cut to pieces in front of the king and his head was stuck on a spike on London Bridge • However, the revolt frightened the rich and the Poll tax was scrapped and within a hundred years most peasants were freemen 	<ul style="list-style-type: none"> • After arriving in Orleans Joan inspired the French troops to defeat the English within four days • Joan won a number of other battles and when Charles was crowned king in 1429 she stood by his side holding her banner • However, in May 1430 she was captured and sold to the English by the Burgundians • Joan was put on trial for heresy for dressing like a man which was against Church law, she was found guilty and burnt at the stake in May 1431 	<ol style="list-style-type: none"> 5. THE PEASANTS – the lower classes could also cause problems for the king if they rose up and refused to accept their role within the feudal system 1381 Peasants' Revolt saw thousands of peasants march on London threatening royal authority, burning the houses of the rich and murdering the Archbishop of Canterbury

1. Background – The Crusades	2. Saladin	3. Battle of Hattin (1187)
<p>The Holy Land – the area including Jerusalem and the surrounding area is an important religious site for three world religions (Christianity, Islam and Judaism)</p> <p>First Crusade – was an attempt by Christians to seize control of Jerusalem and the Holy Land at the end of the 11th century</p> <p>Siege of Jerusalem (1099) – the First Crusade captured Jerusalem massacring its inhabitants and pillaging the city</p> <p>Crusader States – following the success of the First Crusade four crusader states were established in the Holy Land to consolidate Christian control over the region</p> <p>Second Crusade (1147-49) – was launched after the Turkish general Zenga captured the city of Edessa in the Holy Land. However, this crusade was much less successful and failed to recapture Edessa</p> <p>Saladin – as a young boy growing up in Damascus Saladin witnessed the major defeat of the Second Crusade. His older brother Shahanshah was killed in the fighting.</p>	<p>1137/38 – Saladin was born in Tikrit in modern day Iraq</p> <p>1148 – witnesses the major battle between Muslim forces and the 2nd Crusade at Damascus</p> <p>1168/69 – now part of the Syrian army of Nur al-Din he helps his uncle Shirkuh to conquer Cairo</p> 	<ul style="list-style-type: none"> • By 1187 Saladin was powerful enough to challenge the Crusaders for control over the Holy Land • There had been increasing tension between Christians and Muslims partly due to the behaviour of Reynald of Chatillon • Reynald had enraged Saladin and many other Muslims by attacking pilgrims journeying to the Holy city of Mecca • Saladin gathered a huge army of 30,000 men, half of which was made up of cavalry, he was determined to drive the Christians out of the region • Saladin successfully lured the Crusaders into an ambush at the battle of Hattin in July 1187. The Crusaders army which consisted of 20,000 men was almost completely destroyed • Saladin personally cut off the head of his greatest enemy, Reynald of Chatillon • Jerusalem was now at the mercy of Saladin and he was able to advance upon the city ready to seize it back from the Crusaders almost 100 years after its capture during the First Crusade
	<p>1170 – following the death of his uncle he is chosen as the new leader (vizier) of Egypt</p> <p>1174 – Nur al-Din, Syrian leader, dies and Saladin sees an opportunity to unite the Muslims of the Middle East in a Holy War against the Crusaders</p> <p>1174-83 – Saladin takes over cities in Syria ready for his confrontation with the Christians</p>	

1. Retaking Jerusalem

20th September 1187 – Saladin arrives outside the city walls of Jerusalem

Siege of Jerusalem – Saladin’s forces attacked the city walls using Mangonels and burning underneath their foundations



Map of the Holy Land at the time of the Third Crusade

Negotiations – by October 1187 the city walls had been breached and Saladin began negotiations for the surrender of Jerusalem

Saladin the merciful – Saladin was keen to avoid the bloodshed that had occurred when the crusaders had taken Jerusalem almost one hundred years before

Ransom – after a ransom of 30,000 dinars was paid the inhabitants of the city were allowed to leave without harm

2. The Third Crusade

Launching the crusade – the news that Jerusalem had fallen to Saladin was greeted with great shock in Europe

-Pope Gregory VIII launched the Third Crusade to retake the Holy City and the kings of Germany, France and England all agreed to participate

Richard vs Saladin

- The Third Crusade became a battle between Richard the Lionheart (English king) and Saladin
- Richard arrived in the Holy Land in 1191 and helped the Crusaders to take the city of Acre
- Richard then attempted to march south and take back Jerusalem for Christianity but his path was blocked by Saladin’s army
- The winter of 1191-92 developed into a stalemate with Richard unable to advance on Jerusalem, eventually an exhausted Richard decided to return back to Europe on 9th October 1192
- The Third Crusade was over and Jerusalem remained under the control of Saladin
- Saladin was also exhausted after years of conflict with the Crusaders and on 4th March 1193 he died
- The legend of Saladin suggests that he died virtually penniless

3. Why was Saladin so successful?

a) Trust – Saladin kept his word which helped to build trust from his followers

b) Ruthlessness – although his reputation suggests that Saladin treated his enemies with respect he could be ruthless when required, e.g. he had two of his enemies crucified in Cairo

c) Luck – the death of his uncle, Shirkuh, and the ruler of Syria, Nur al-Din, were both fortunate for Saladin and helped him to build his power base

d) Merciful – following his victories Saladin was careful not to slaughter and plunder his enemies he understood that if you humiliated your rivals you would turn them into a permanent enemy



1. Reasons for the success of the Mali Empire	2. The Great Hajj (1324)	3. Timbuktu			
<p>Geography – Mali was a fertile country and its people could grow enough food for themselves and have surplus to trade. They learned how to use weapons from iron and horses for transport. This helped them to create powerful armies</p> <p>Trade – Mali sold Gold and Salt to North African traders and bought silks from China, spices from India and Persian fabrics</p> <p>Islam – a common religion helped to tie the different peoples who were part of the empire together</p> <p>Security – Mansa Musa protected his people and traders from attack helping to increase the flow of trade</p> <p>Propaganda – Mansa Musa used griots (musicians and poets) to spread stories about the empire across West Africa</p>	<p>1324 – Mansa Musa sets out on a religious pilgrimage to Mecca, the journey covered about 3,000 miles</p> <p>The emperor took 60,000 followers (including 8,000 soldiers) , 80 camels and 300lbs of gold with him</p> <div data-bbox="779 554 1181 982" style="text-align: center;"> <p>Mansa Musa</p>  </div> <p>In July 1324 he spent the summer in Cairo and gave so much gold away as gifts that the precious metal started to lose its value in Egypt</p> <p>During his time in Mecca he spent time with other worshippers and met great Islamic scholars and Imams. He invited some of them to return to Mali with him.</p>	<p>Mansa Musa wanted the city of Timbuktu to be his greatest legacy</p> <p>He paid the architect Al-Sahili to build a new mosque in the city</p> <p>Timbuktu became a centre for learning with thousands of manuscripts in its famous libraries</p> <p>The city became like a medieval European university and attracted students and academics from across West and North Africa</p> <p>Timbuktu became known as the ‘pearl of Africa’</p> <tr> <th colspan="2" data-bbox="1346 986 2005 1076">4. The Decline of the Empire</th> <td data-bbox="1346 1076 2005 1378"> <p>Following Mansa Musa’s death the Mali Empire broke apart losing territory including Timbuktu</p> <p>Eventually West Africa was taken over by European powers and Mali became a French colony</p> </td> </tr>	4. The Decline of the Empire		<p>Following Mansa Musa’s death the Mali Empire broke apart losing territory including Timbuktu</p> <p>Eventually West Africa was taken over by European powers and Mali became a French colony</p>
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Key words:

Weather: The short term state of our atmosphere which can vary on a daily basis, e.g. sunny, rainy, windy.

Climate: The long term average temperature and precipitation for a specific location., normally measured over a 30 year time period.

Climate change: significant changes in temperature, rainfall and wind as a result of a warmer atmosphere.

Why is studying the weather important?

- Farmers study the weather so they know whether rain is forecast for their crops.
- Extremes of weather can lead to flooding which can damage homes and cost money.
- Changes to weather can disrupt transport e.g. roads can become icy which can be dangerous.

How do temperature and rainfall vary across the UK?

The western side of the UK receives more rainfall (shown in blue on map) than the east (shown in brown) as the UK's weather comes from the Atlantic Ocean so the air contains more moisture. The air is forced to rise over higher ground forming relief rainfall in western areas. The clouds have then lost their moisture so the east is much drier.



The south of the UK is warmer than the north as it is closer to the Equator (a factor called latitude).

The UK has 4 distinct climate zones. The higher relief upland areas are also colder as temperature decreases with altitude (height above sea level).

Why does climate vary around the world?

Global Circulation System: The Equator receives the most energy from the Sun and so the global circulation system works to re-distribute the heat around the world. Air rises in some places (Equator and 60°N and S) creating high rainfall, whereas air sinks at other places (30°N and S and 90°N and S), creating dry conditions or deserts.

Ocean circulation: Water also moves around the oceans to help spread heat around the world. This idea was seen when a container of ducks opened and the ducks floated all around the world.

How does climate influence the world's biomes?

There are 7 main climate zones as shown on the map – these are areas with distinct temperatures and rainfall totals. The climate in these areas influences the plants and animals that are found there and the location of biomes.

Biomes: A large scale community of plants and animals occupying a particular habitat.

What are the main features of the major biomes?

Polar: Very low temperatures and low rainfall. Animals are adapted e.g. polar bears have thick fur. Few plants grow here due to cold, e.g. Arctic.

Temperate: Moderate temperature and rainfall, range of animals and plants found here, good conditions for plant growth, e.g. UK.

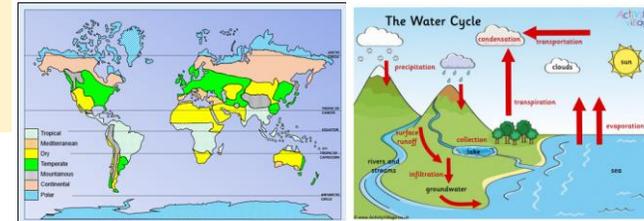
Mediterranean: Warm temperatures and moderate rainfall, plants such as olive trees found here, e.g. southern Spain.

Hot desert: Very high temperatures and v. low rainfall, few plants can survive except cacti, animals are adapted, e.g. Sahara desert, north Africa.

Tropical rainforest: High temperatures and high rainfall, rapid plant growth, many animals found here, e.g. Amazon rainforest, Brazil.

How do we measure the weather?

Weather measurement	Units	Instrument
Air temperature	°Celsius	Thermometer
Rainfall	mm	Rain gauge
Wind speed	m/s	Anemometer
Wind direction	Compass directions	Wind vane
Humidity	% water in air	Hygrometer

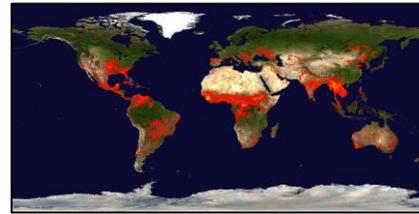
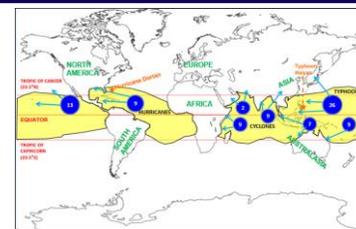


How much water is available?

- There is a fixed volume of water on the Earth which has not changed over time.
- 97% of water is salt water and 3% is fresh water.
- However, the demand for water has increased by 600% as population has increased and people use more water in their daily lives.

Geography

How does weather and climate affect our lives?



Why are wildfires becoming more common?

- A wildfire is a large, destructive fire that spreads quickly over scrubland (type of trees) or bushes.
- Heat, fuel and oxygen are needed for wildfires to burn.
- Climate change is increasing the size, frequency, intensity and seasonality of wildfires.
- While climate change might not ignite (start the fire burning) the fire, it is giving fires the chance to turn into large, dangerous blazes.
- It creates warmer temperatures, increasing the amount of fuel (dried vegetation) available, and reduces water availability.

What causes flooding?

- **River flooding occurs when there is too much water in the river so some of the water overflows onto the land around.**
- Some of the main causes of flooding:
 - Extreme rainfall – too much rainfall for the river to hold.
 - Steep slopes – rainfall reaches river faster so flooding more likely.
 - Deforestation – soil not held together by roots so blocks river.
 - Urbanisation – impermeable surfaces mean water cannot soak in and reaches the river quickly.

What are tropical storms?

Tropical storms are powerful low-pressure systems which create heavy rainfall of 25cm a day and very strong winds of 120km/hr

- They occur in tropical waters (shown in map to left) as this provides more energy so the water evaporates and forms large rain clouds.
- Tropical storms cause damage as flooding destroys homes and the strong winds can damage vegetation, homes and power lines.

How do urban areas influence climate?

Urban areas: these are towns and cities with lots of buildings and higher population densities.

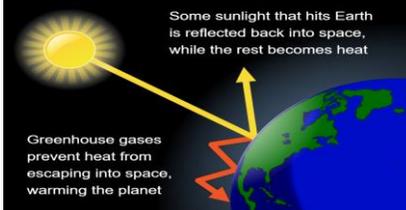
Rural areas: these are the countryside and small villages – lots of green open spaces, fields etc.

- Urban areas have warmer temperatures than rural areas as the darker surfaces absorb more heat from the sun and there is less water and bare ground which cools air.
- Urban areas have more rainfall as the pollutants that are produced allow water droplets to form around them which forms clouds which creates rainfall.

How is the climate changing?

- There are natural and human reasons why the climate is changing.
- Greenhouse gases trap more of the Sun's radiation which increases temperature.
- Human activity is producing more greenhouse gases such as carbon dioxide and methane.
- Trees and plants are able to absorb greenhouse gases.

The Greenhouse Effect



What is water scarcity?

- Water scarcity occurs when there is more demand for water than there is water available leading to a shortage of water.
- This can be due to lack of rainfall – physical water scarcity.
- Or lack of money to provide clean drinking water for people – economic water scarcity.

What is drought and what are the causes?

- **Drought is a prolonged period of unusually low rainfall that can lead to water shortages.**
- The main physical cause of drought is a lack of rainfall, but it can be made worse by human actions such as building dams and deforestation.

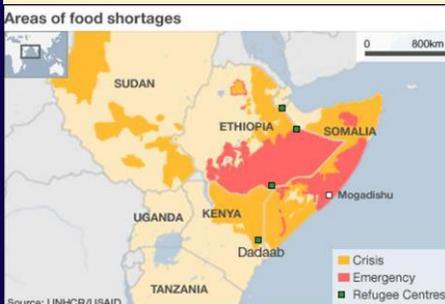
Drought in the Horn of Africa

Causes: the area only received 30% of the normal rainfall totals in 2011 and 2012.

Social impacts (people): 12 million people needed food aid, 920 000 people left Somalia as there was so little food available.

Economic impacts (money): price of food went up by 68% and \$2.48bn was requested to help.

Environmental impacts: too much grazing of animals harmed the soil and trees were cut down.



Middle East's physical geography

- The Middle East is a transcontinental region, located where Asia, Africa and Europe meet.
- This region is rich in oil
- There are two seasons. Winter and summer. Even winters are hot.
- The climate can be described as arid. There is little rainfall in the region.
- The northern countries receive the most rainfall including Turkey and Syria.

Natural resources – oil and gas

The Middle East is the source of the world's largest and most important reserves of **crude oil**.

The Arabian plate currently holds 48 per cent of the world's **oil** reserves and 43 per cent of the world's **natural gas**.

This wealth of oil and gas is the result of the slow continual movement of the Arabian plate. The Arabian plate experienced around 570 million years of nearly uninterrupted sedimentation, an ideal setting for the creation of hydrocarbons, the compounds that make up crude oil.

Climate in the Middle East

The south

The Arabian Peninsula is predominantly desert. Rain comes mainly between May and September but there is only light, brief rainfall in most of the region and in some areas it never rains at all.

A **Mediterranean climate** has two distinct seasons: hot dry summers when the weather is similar to a desert and warm and wetter winters.

Water stress and drought

- Many countries are facing water stress including Saudi Arabia, Yemen and Oman. **Water stress** is where the demand for water **exceeds** the availability (**Exceeds** means to go above)
- Population growth and falling rainfall is causing an increase in water stress. The level of water in underground **aquifers** is falling. In some places this decreasing by 6 metres per year (An **aquifer** is an ancient supply of water deep beneath the ground)
- Water stress will impact on the **social** and **economic** development of countries in the Middle East. Farmers will not be able to grow crops or rear animals. This could lead to a rise in food prices and eventually food shortages. In the future water shortages could lead to conflict in the region.

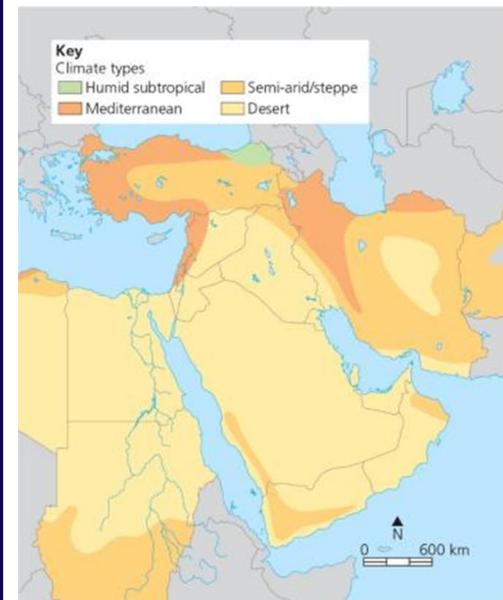
How can we improve water supply in the region?

Pivot irrigation

This uses water which is buried deep in the ground. They reach this water through drilling into the ground and creating a sprinkler which waters the land and crops above in a circular motion. Due to their shape, they do waste space and are expensive to create (\$5 billion). However, they allow crops to grow in dry places and they do not need a lot of workers to take care of them.

Desalination

Desalination is turning sea water into fresh water. It is a heavily used technique in the Middle East. However, it is creating brine, a salt material that when pumped back into the sea can kill animals. It is very expensive to do and creates a lot of pollution to complete the process.



Causes of war/conflict – key terms

- Economic gain (to take control of another country's wealth)
- Territorial gain (to take control of land)
- Nationalism (to prove your country is superior/better than another country)
- Civil war (fighting between different groups of people within the same country)
- Revolutionary war (when large numbers of people in a country tries to topple the government or leader of a country)
- Refugee (a person fleeing from war, persecution or natural disasters. They are protected by law. People have to prove they are a refugee if they want a safe country to accept them)
- Asylum seeker (someone who claims to be a refugee, looking for a safe place to live; but whose case has not yet been proven)
- Migrant (is a person who moves from one place to another. Refugees are a type of migrant)
- Economic migrant (Someone who moves to another country for a job there. Refugees are very different to economic migrants)

How has the United Arab Emirates developed?

- UAE was formed in 1971. It is a group, or federation, of seven emirates – land ruled by a monarch called an emir.
- Abu Dhabi, the largest and most important emirate, covers 85 per cent of the country.
- Dubai is the most populated: 35 per cent of UAE's population.
- Oil reserves are the seventh largest in the world.
- Natural gas reserves are the seventeenth largest in the world.
- Second largest economy in the Middle East.
- Since its formation the economy has grown 231 times.

How is the UAE diversifying their economy?

A strong and consistent government, since 1971, has been very successful at diversifying the economy to reduce the dependence on oil exports. Dubai has been particularly successful at this, becoming a global city. Oil revenue has been invested in developing modern ports, airports and airlines, turning Dubai into a world communication hub. Dubai promotes itself as 'a gateway to global trade, as a dynamic and diverse economy at the crossroads of the world'. The city's assets, including its architecture, modern transport system, high-class hotels, shopping malls, theme parks, year-round sunshine, beaches and deserts are all the result of economic investment using oil revenue. As a consequence, the city has developed into the fifth largest world tourist destination.

Conflict in Yemen

The conflict in Yemen has caused a **humanitarian crisis**. It is threatening people's health, safety and well-being on a large scale. It has a number of social and economic consequences for the people of Yemen.

1. At least 10,000 people have died in the 3 and a half years since the conflict began.
This is an estimate figure and it is expected to be more.
2. Around 20 million people are **food insecure**. **Food security** is having reliable access to food at an affordable price.
3. Hospitals and schools have been destroyed by air strikes.
4. Transport infrastructure has been destroyed by air strikes making it difficult for **aid** to get to the places it is needed most.
5. 50% of the population struggle daily to get enough water to drink and grow food



Yemen – why so poor?

Climate – desert – difficult to grow crops, so food unreliable.

Water stressed – seventh most water stressed country in the world, mismanaged. In the capital city, Sana, tap water is available once every four days for 2 million people.

Politics – politically unstable, government corruption, it has misused nation's wealth

Economy – no products exported, agriculture poorly developed so reliant on food imports. Yemeni men worked in Saudi Arabia as migrant workers and sent money home, but with the outbreak of war they were sent home. Oil now running out, gas has been discovered but country is too unstable to develop it.

Inaccessible – no railways, so difficult to transport basic services to people.

War – regular outbreaks of civil war, oil wealth spent on military rather than developing the country. Now infrastructure damaged, economy falling apart, disease spreading, people reliant on aid.

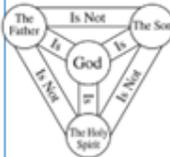
Population – due to double in next 20 years, two thirds of the population under 24, unemployment among young is at 60 per cent.

Gender inequality – women have few rights and less education than men, girls often taken out of school to marry young or care for relatives, approximately 49 per cent of women are illiterate, half the potential of the country not used.

Access to education and healthcare – this was already poor before the current war.

Potential of the country for economic development – gas reserves and tourism – beautiful and unique landscape and historically important buildings, but war and instability mean these cannot be developed.

Concept	Explanation
Jesus 	Jesus was born in approximately 4BCE in Bethlehem. Christians believe that he is God incarnate and that he is the teacher, saviour and judge of all people.
Omnipotent	All powerful. For example, Jesus' first miracle of turning water into wine at the Marriage at Cana
Omniscient	All knowing. For example, God knew the Job would not turn his back on God despite God allowing the devil to test Job.
Omnipresent	Everywhere. God is everywhere.
Omnibenevolent	All loving. For example, Jesus died on the cross to make up for the sin that humans have committed. Jesus forgave an adulterous woman.
The Fall	The event where Adam and Eve disobeyed God by eating the forbidden fruit from the Tree of Knowledge. They were banished from the Garden of Eden and brought sin, evil, death and suffering into the world. They broke the relationship between humans and God. This is hereditary, meaning that it is passed on to all humans. 
Incarnation	Jesus is God in human form. He is fully God and fully human. Jesus was born without sin to a virgin mother and was placed in her womb by God. He was born in poverty but visited by royalty and shepherds, showing that he came for all people. He has all of the characteristics of a human e.g. feels pain, grows old; but also of God e.g. is omnipotent and omnibenevolence.

Concept	Explanation
Symbolism of the gifts at the Nativity	Gold– a precious metal often associated with royalty. This shows that Jesus is King of the World Frankincense– this is used by Priests and shows that Jesus is holy Myrrh– an embalming fluid used on dead bodies. This shows that Jesus will die for the sins of mankind.
Monotheism	Belief in one God.
Holy Trinity	The belief that there is one God who can be seen in three persons- Father, Son and Holy Spirit . Each of these is wholly God but they are not the same. The Father– the creator The Son– Jesus The Holy Spirit– God in the world today who guides, helps and teaches people 
Parable of the Lost Son	The parable of the Lost Son. A boy takes his inheritance early and wastes it. He returns home, expecting his father to reject him, but instead, his father welcomes him with open arms. The forgiving father represents God. The lost son represents all people or sinners who can return to God.
Agape	Unconditional love for all people
Dr. John Sentamu	The Retired Archbishop of York who wrote a book called 'Agape Love Stories' that show Jesus' love in action.
Damilola Taylor Trust	A charity set up by Richard Taylor to give opportunities to disadvantaged and under privileged young people. He is inspired by agape and does this in memory of his son, Damilola, who was tragically murdered by a gang.

	FRENCH	ENGLISH
1	les yeux	eyes
2	les cheveux	hair
3	la taille	size
4	mon frère	my brother
5	mon oncle	my uncle
6	ma tante	my aunt
7	ma soeur	my sister
8	mes grand-parents	my grandparents
9	grand	tall
10	mince	thin
11	gros	fat
12	petit	small
13	mon école	my school
14	l'anglais	English
15	le français	French
16	les sciences	Science
17	les maths	Maths
18	la cuisine	Cooking
19	l'histoire	History
20	violet	purple
21	gris	grey
22	marron	brown
23	amusant	fun
24	ennuyeux	boring

	FRENCH	ENGLISH
25	formidable	great
26	nul	rubbish
27	génial	great
28	normalement	normally
29	d'habitude	usually
30	souvent	often
31	cependant	however
32	le matin	the morning
33	le soir	the evening
34	l'après-midi	the afternoon
35	je préfère	I prefer
36	vraiment	really
37	un peu	a bit
38	je pense que	I think that
39	à mon avis	in my opinion
40	combien?	how much/many?
41	comment?	how?
42	de temps en temps	from time to time
43	quelquefois	sometimes
44	parfois	sometimes
45	avoir	to have
46	j'ai	I have
47	je n'ai pas de	I don't have
48	être	to be
49	je suis	I am
50	je ne suis pas	I am not

	SPANISH	ENGLISH
1	los ojos	eyes
2	el pelo	hair
3	la estatura	size
4	mi hermano	my brother
5	mi tío	my uncle
6	mi tía	my aunt
7	mi hermana	my sister
8	mis abuelos	my grandparents
9	alto	tall
10	delgado	thin
11	gordo	fat
12	bajo	small
13	mi colegio	my school
14	el inglés	English
15	el francés	French
16	las ciencias	Science
17	las matemáticas	Maths
18	la cocina	Cooking
19	la historia	History
20	morado	purple
21	gris	grey
22	marrón	brown
23	Gracioso	fun
24	aburrido	boring
25	genial	great

	SPANISH	ENGLISH
26	malo	rubbish
27	estupendo	great
28	normalmente	normally
29	generalmente	usually
30	a menudo	often
31	sin embargo	however
32	la mañana	the morning
33	la noche	the evening/night
34	la tarde	the afternoon
35	prefiero	I prefer
36	realmente	really
37	un poco	a bit
38	pienso que	I think that
39	en mi opinión	in my opinion
40	¿cuánto?	how much/many?
41	¿cómo?	how?
42	de vez en cuando	from time to time
43	a veces	sometimes
44	algunas veces	sometimes
45	tener	to have
46	tengo	I have
47	no tengo	I don't have
48	ser	to be
49	soy	I am
50	no soy	I am not

Fitness component	Description
Cardiovascular endurance	The ability of the heart, lungs and blood to transport oxygen during sustained activities.
Speed	How quickly you can move the whole body or part of a body.
Muscular endurance	To perform repeated muscular contractions over a sustained period of time.
Strength	The maximum force a muscle can apply.
Agility	The ability to change direction at speed
Power	Speed x strength
Flexibility	The range of movement around a joint.

Key terminology

Key word	Description
Heart	A muscle which pumps blood around your body
Lungs	Organs which breathe in oxygen and breathe out carbon dioxide
Oxygen	A gas needed for creating energy
Anaerobic	High intensity exercise
Acceleration	An increase in speed
Repetition	Each time a movement is repeated
Contraction	A muscle producing a force
Balance	Remaining stable. Centre of mass stays over base of support
Force	A push or pull that changes that causes an object to speed up or slow down.
Suppleness	Moving and bending with ease.

Roles within physical activity	Description of roles	Qualities
Performer	Takes part in the activity Executes skills and tactics	<ul style="list-style-type: none"> • High effort levels • Fair • Can-do attitude
Coach	Plan and lead warm up & activities Give instructions and demonstrate Give coaching points Time activities and whole session	<ul style="list-style-type: none"> • Organised • Good communicator • Confident • Knowledgeable • Enthusiastic
Official	Time a competition Enforce the rules Risk assessment Start and stop the game	<ul style="list-style-type: none"> • Knowledgeable • Confident • Good communicator • Good decision maker

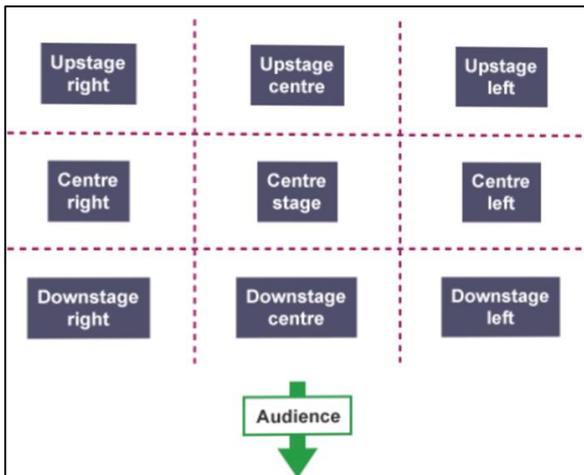
Warm up ideas:

- Stuck in the mud
- Cups and saucers with cones (one team turn cones right way round, the other team turn them upside down)
- Truck and trailer (can be dribbling a football/ basketball etc)
- Piggy in the middle
- Obstacle course

Topic 2 Chicken! by Mark Wheller



Areas of a stage



Stage directions are written from an **actors** point of view on **stage** not from the **audiences** point of view.

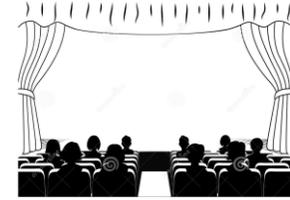
What is a script ?	The story that has been written for actors to perform
What is the name given to the writer of the script?	Playwright
Acts in a play are broken up into a number of?	Scenes
The words an actor speaks in the script is called?	Dialogue
The parts of the script describing the actions, setting and characters are called?	Stage directions — usually written [in brackets] or <i>italics</i>
What is the name given to the person responsible for setting the play on stage?	Director
A person written about in a script is called a?	Character

Vocabulary test

Learn the spellings below:

- 1.) playwright
- 2.) dialogue
- 3.) script
- 4.) character
- 5.) theatre
- 6.) audience
- 7.) director
- 8.) actor
- 9.) role
- 10.) scenes

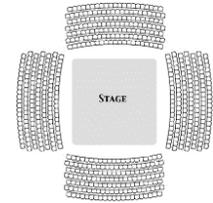
Theatre in Education was created as a way to **help students learn about a topic** in an exciting way. A 'TIE' play is written for a **target audience**— this means the plays are written with a certain year group in mind.



Cross cutting is when two or more scenes are performed on stage at the same time. The final scene of Chicken! 'The accident' uses this drama technique.



Playwrights intention means what were the script writers aims of the play. What do they want the audience to learn from reading or watching their play. In Chicken! The intention is to raise awareness about road safety and peer pressure.



Theatre in the round is when the audience is seated on all sides of the stage. Think about how fans sit at a football or rugby match.

Physical skills These skills are linked to the ways an actor **uses their body** to communicate their **character**. They are all **non verbal communication skills**, meaning you do not talk or make any sound!

Body Language- Posture
Body Language – Gestures
Facial expressions



Vocal skills These skills are linked to the ways an actor **uses their voice** to communicate their **character**. There are **3 key elements** you are going to explore: **Pace, Volume, Tone**.





USING STIUMULUS IN DRAMA

Every good performance starts with an idea, and every idea comes from a stimulus. There are lots of different stimuli available, and in this unit we will be exploring how we can use them to create engaging performances. The stimuli we will use are;

- Photographs
- Poems
- Newspaper articles
- Music
- Props
- Costume

KEY WORDS

Stimulus

A stimulus is a starting point or trigger to generate ideas.

Devising

Working as part of a group in response to a stimulus leading to the creation of an original performance.

Expression

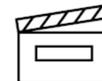
Vocal and physical skills used to portray character during performance.

Rehearsal

The practice or trial performance of a play or other work for later public performance.

Character

A person, animal, being, creature, or thing in a performance.





USING SCRIPT IN DRAMA

From comedies to tragedies, horror to action, romance to sci-fi, the basis of most performances is a script. It is the job of actors and directors to bring this script to life, taking the dialogue and stage directions from page to stage and creating a world for the audience to peer into.

In this unit we will develop our own script writing skills, perform duologues, and create monologues. We will examine characters, delve into storylines, and explore emotion through performance with a focus on;

- Blood Brothers
- World War One
- The Five Senses
- Slapstick

KEY WORDS

Accent

A particular way of talking and pronouncing words and is associated with a geographical area or social class.

Pitch

The highness or lowness of the voice. For example, when a person is excited or nervous their pitch may become higher.

Pace

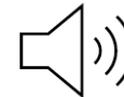
The speed at which someone speaks. For example, if someone is tired, they may speak slowly.

Volume

How loud or quiet your voice is. For example, if someone is angry, they may shout.

Stage directions

An instruction written into the script of a play, indicating stage actions, movements of performers, or production requirements.





DEVELOPING PERFORMANCE SKILLS

To become a successful actor, you must develop your performance skills. This means you need to carefully consider how you will portray your character on stage. In this unit you will think about the following questions and begin to understand how to create character.

- Does your character have an accent?
- What is the tone of their voice like?
- How quickly do they speak?
- What does your character's movements and way of using their body says about them?
- Are they very nervous and stressed so may fidget a lot or have their shoulders hunched up tight to indicate tension?
- Does your character move their face a lot?
- What does their facial expression say about their character?
- Do they have a very expressive face or do they try not to give much of themselves away?

KEY WORDS

CHARACTER

A person, animal, being, creature, or thing in a performance.

VOCAL EXPRESSION

The use of voice to show the emotion of a character, including tone, pace, pitch, and volume.

FACIAL EXPRESSION

A non-verbal way to convey emotions and communicate the feelings and thoughts of the characters to the audience.

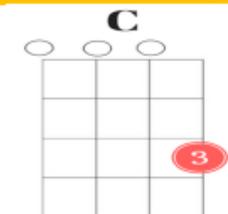
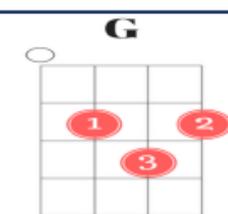
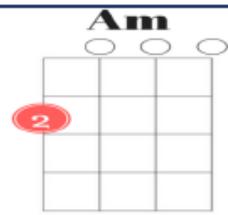
GESTURE

the actions used by an actor to show what the character is feeling or what they are doing.

POSTURE

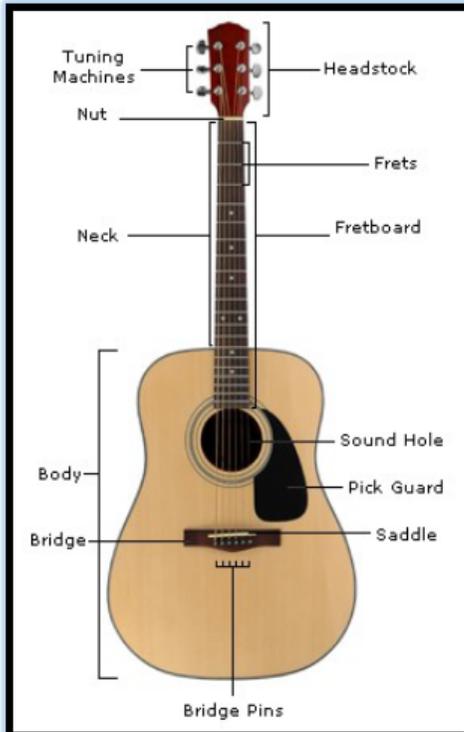
the position that a character is sitting or standing in to show their feelings or status.



Ukulele		The ukulele is a small guitar-like instrument with nylon strings, from Hawaii. Uku-lele translates to 'Jumping Flea'		
Holding a Ukulele		Ukulele Chord Diagrams (A chord is 2 or more notes heard together)		Ukulele Skills
1	 <p>The back of the ukulele must be against your belly.</p>	C C Major		Timing & Accuracy <ul style="list-style-type: none"> ○ Tap your foot along to the pulse to help with timing. ○ Prepare chords ready to be played.
2	 <p>Hold your elbow away from your body with the wrist bent.</p>	G G Major		Strumming Technique <ul style="list-style-type: none"> ○ Using the Thumb: Flesh Down, Nail Up ○ Using the Index Finger: Nail Down, Flesh Up
3	 <p>Place the thumb of your hand behind the neck.</p>	Am A Minor		Projection – the volume and clarity of your playing. <ul style="list-style-type: none"> ○ Don't softly stroke when you strum. 'Dig in' to the strings to project the sound.
Posture		The diagram will help you with use the correct fingers for the chords above.		Even Tone Quality
4. Your back to the back of the chair.	5. Sit on the front edge of your chair.			<ul style="list-style-type: none"> ○ Strum in a straight line (up and down) ○ Strum in the same position

Music Knowledge Organiser

- Guitar -

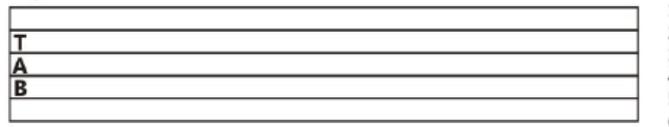


TAB (Tablature)

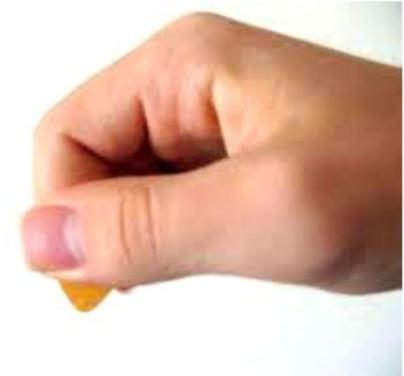


The word **TAB** at the beginning of the tablature score is the abbreviation for tablature

Tablature has six lines that indicate the six strings of the guitar.

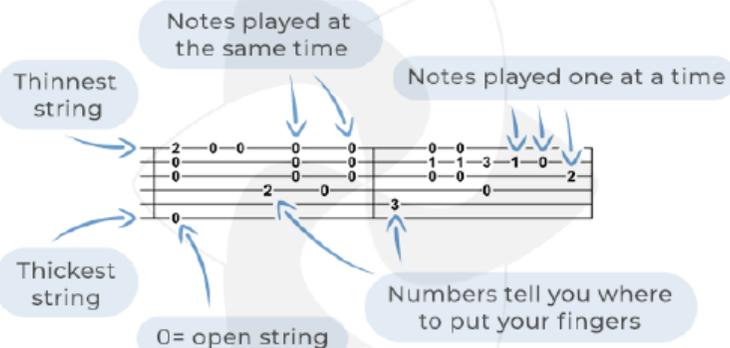


Holding the Pick



Hold the pick securely between your thumb and first finger with only a small amount of the pointy end of the pick showing. Move your wrist to pick, not your whole arm. Rest your forearm on the body of the guitar.

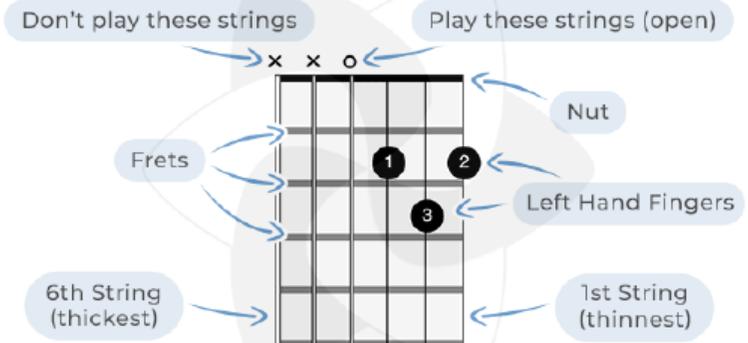
READING TAB



Danger

DONT
TOUCH
THE
TUNING
PEGS!

READING CHORD BOXES



EXPLORE

- Reggae Music as a genre
- Historical Context

DEVELOP

- Keyboard skills
- Structure of Pop music knowledge
- using 'One Love'

CREATE

- A performance of 'Three Little Birds'
- (using **keyboards**)

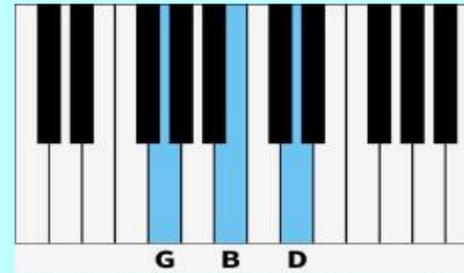
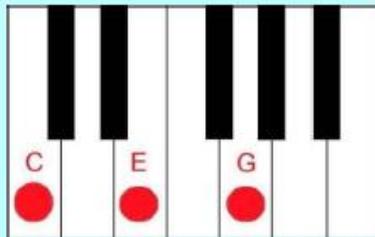
EVALUATE

- How to work as an ensemble
- How to improve keyboard skills

Essential Knowledge – You will learn that

Keywords

- Bob Marley
- Structure - Intro, verse, chorus, outro
- Chords
- Melody
- Off- beat chords/back beat
- Hook/Riff (repeated short phrase)
- Jamaica
- Protest Song
- C major chord,
- F major chord,
- G major chord
- triad



Reggae Music is a genre of Music originating in Jamaica from traditional folk music (Mento). The lyrics and happy nature of the music was used to unify the people in love and against injustice. Bob Marley was a very important instigator of this genre with his band The Wailers. They became famous in London during his time. He used guitars and bass guitar and drum kits along with an important off beat chord technique called a Back Beat.

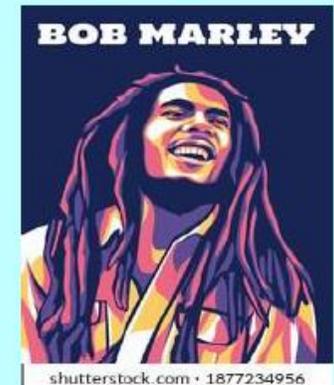
Skills:

Chords are 2 or more notes played at the same time.

A melody is one note at a time and can also be called the tune.

Playing together means keeping the same tempo and listening together to fit the two parts in an ensemble.

A **riff** repeats over throughout the song:



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Y7 Art & Design– NF Creatures

EXPLORE	DEVELOP	CREATE	EVALUATE
They will explore the A&D the formal elements through the work of others and a series of written and practical activities.	Develop an understanding of drawing, photography painting and 3D techniques.	Create a range of outcomes in response to tasks. Such as <i>Tonal Portrait and Ceramic mask</i> .	Pupils will evaluate their progress and effectiveness of each outcome they produce using Ebi & www activities Will complete written critique of the work of other artists' work in the lesson and for homework.

ESSENTIAL KNOWLEDGE- You will Learn That

Formal Elements are the Key to Art and design in understanding and making

KEY WORDS & FORMAL ELEMENTS ART GENRE

Word	Definition
composition	• The position and layout of images on the paper
line	• Defines shape, the outer edges of something
tone	• How dark or light a shape is
shape	• The outline of the still life objects
form	• Appearing three-dimensional
pattern	• A repeated shape or line
texture	• The feel or appearance of a surface, how rough or smooth it is

Recording from Observation is a Primary source observational drawing: drawing something real in front of you. Secondary source observational drawing: drawing something from a picture.

Grades of Pencils

Pencils come in different grades.

The softer the pencil the darker the tone.

H = hard, B = black (soft)
In Art the most useful pencils are B, 2B and 4B.



Techniques and Processes- You will learn how

TECHNIQUE DEFINITIONS

balance	The even spread and spacing of the shapes across the design
orientation	The direction that a shape has been put on the page e.g. vertical, horizontal and diagonal
scale	The different size of shapes used within the print design
bleed	a blending technique used with water
Cross hatching	Lines are placed over each other at different angles to build up areas of tone

Key Practitioners – Artists, Designers, Movements and Themes

Natural Forms: objects or living creatures in their natural form, leaves, flowers, seeds, pine cones, sea creatures, shells.....



YELLENA JAMES Ernst Haeckle



Materials/ Mediums/ Techniques

CERAMIC TECHNIQUES



INCISE



PINCH



SCORE & SLIP



INGRAVE



COILING

TOPIC TERMINOLOGY

Foreground

Front of picture

Middle ground

Middle area of picture.

Background

Appears in distance in picture space.

Printing

Method of repeating an image.

layering

Adding different surfaces on top

Medium

Material art is made of..

Primary

3 base colours

Secondary

Mix of 2 primaries.

Tertiary

Mix of 3 primary



Proportion

the relationship of the size of one element when compared to another.

Symmetry

has identical parts mirroring each other across a line of symmetry.

Observation

drawing from life & looking closely.



Y7 Food – Preparing Food Safely & The Eatwell Guide

EXPLORE	DEVELOP	CREATE	EVALUATE
<p>EXPLORE Explore how to keep safe when preparing food ingredients and how to ensure that you work in a hygienic and methodical way.</p> <p>Use the principles of <i>The Eatwell Guide</i>, when devising meals and menus for themselves and others. Name the section names and foods they contain.</p>	<p>DEVELOP Applies all principles of food safety and hygiene when preparing and cooking ingredients.</p> <p>Name the correct cutting methods and know when to use the Bridge method and when to use the Claw methods appropriately.</p>	<p>CREATE Select and use a range of ingredients to make a couscous salad, bread rolls, apple crumble, Cheese Scones and Vegetable stir fry. .</p> <p>Use correct preparation methods and correct equipment with care.</p>	<p>EVALUATE Reviews practical work with detailed responses. Sentences are well written and most prompt questions are considered throughout responses.</p>

Essential Knowledge – You will learn that

What is the Eatwell Guide?

Comprises 5 main food groups.

Is suitable for most people over 2 years of age.

Shows the proportions in which different groups of foods are needed in order to have a well-balanced and healthy diet.

Shows proportions representative of food eaten over a day or more.

Why is the Eatwell Guide important?

The Eatwell Guide shows you how much (proportions)

of food you need for a healthy balanced diet.

What are the consequences of a poor diet?

A poor diet can lead to diseases and can't stop us from fighting off infections.

What are the sections on the Eatwell Guide?

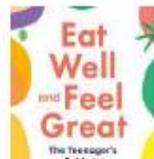
Fruit and vegetables

Potatoes, bread, rice, pasta and other starchy food

Dairy and alternatives

Beans, pulses, fish, egg, meat and other proteins

Oils and spreads



Techniques and Processes – You will Learn how



Weighing and measuring

1. Make sure your scales are set to measure in grams (g)
2. After putting the bowl on the top of the scales press 'tare' or on to reset the scales to zero (0) before adding any ingredients.



ed
blue
yellow
green
brown
white





Key Practitioners – Artists, Designers, Movements and Themes

Washing up

- Step 1:** Put the plug into the sink. Fill the sink up with hot water to about half way. Add a few squirts of washing up liquid while it is filling up.
- Step 2:** Scrape your plates and then pile your washing up in the order you are going to wash it next to the sink – **Always start with knives, dry and return these to the knife block straight away.**
- Step 3:** Wash each item with a dish cloth or brush.
- Step 4:** Dry the dishes with a tea towel.
- Step 5:** Wipe down the sink area using a dish cloth and remove any food from the plug hole.
- Step 6:** Put the washing up liquid, brush and sponge back in the silver pot next to the sink.

MY WASHING UP GUIDE

WHEN WE WASH UP WE WANT TO KEEP OUR WATER AS CLEAN AS POSSIBLE SO WE START WITH THE LEAST DIRTY IT AND END WITH THE REALLY DIRTY AND GREASY DISH

START OFF WITH CUPS AND GLASSES

NEXT WASH THE CUTLERY AND UTENSILS

NOW WASH THE BOWLS AND PLATES REMEMBERING TO WASH THE LEAST DIRTY ONES FIRST

AFTER WASH UP THE SAUCE PANS

FINALLY WASH THE GREASIEST AND DIRTIEST ITEMS SUCH AS BAKING DISHES

KEEP 'EM SEPARATED: AVOID CROSS CONTAMINATION

Food Storage

Cleaning & Sanitizing



Materials/ Mediums/ Ingredients – Origins and Properties



Cover All Four Bases To Avoid Foodborne Illness



CLEAN

Your hands, tools, and food preparation area should all be clean before you cook.



SEPARATE

Steer clear of cross-contamination by keeping raw meat, poultry, seafood & eggs separate from all other foods.



COOK

Cook to proper temperature and serve hot: Don't stay in the danger zone!

Cook your food completely and make sure it reaches the proper temperature before eating. Use 165° for leftover reheating. Avoid the danger zone between 40° and 140°F. See foodsafety.gov for the USDA safe meat temperature guide.

Chill quickly: Don't be in the danger zone! CHILL

Chill leftovers quickly or within 1-2 hours. Defrost food in the refrigerator or under cold running water. Serve and store cold food cold below 40F.



Subject & Topic Terminology

The Eatwell Guide: A healthy eating model showing the types and proportions of foods needed in the diet.

Hydration: The process of replacing water in the body. **Energy:** The power the body requires to stay alive and function.

Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body. These are fat, Carbohydrates and fats.

Micronutrients: Nutrients which are needed in the diet in very small amounts. These are called vitamins and minerals.

Evaluation: the making of a judgement about the amount, number, or value of something; assessment.

Bridge Cutting method: This method of cutting is safe and can be used for lots of different ingredients, such as tomatoes, potatoes, peppers and strawberries.

Claw Cutting method: This method of slicing is safe, and can be used for lots of different ingredients, such as peppers or courgettes or celery



Y7 Product Design – Wooden Puzzles

EXPLORE	DEVELOP	CREATE	EVALUATE
Pupils will be introduced to Product design as a subject and explore the properties of Wood, Deforestation and Is Compostable Furniture the Future of Sustainable Design?	Will develop their own designs inspired by the designs of patterns and colour in the work of Karim Rashid. They will adapt these to a wood based product that is eye catching to children.	Design a thick wooden Jigsaw puzzle for young children. This will be a personal response to the work of Karim Rashid and will meet the brief and consumer profile.	Pupils will reflect and analyse the work of others as well as their own to develop an understanding of the design process. This will inform their evaluation of the project and it's success rate.

ESSENTIAL KNOWLEDGE- You will Learn That

Jigs &



You **draw around a template** to get an exact copy of the original. It helps with **accuracy**. A **jig** helps you drill in the right place every time or sand at a perfect angle every time. It improves **accuracy** and **saves time marking out & measuring**.



Techniques and Processes- You will learn how



PVA glue – poly vinyl acetate – it works by soaking into the surfaces – it only glues **porous** materials e.g. wood, paper, card, cloth. It **plasticises** as it dries (turns into a type of plastic – does not wash out of clothes).



the drill bit in the chuck

Key Practitioners – Artists, Designers, Movements and Themes

Materials/ Mediums/ Ingredients – Origins and Properties

Topic Terminology

Egyptian-born and Canadian raised Karim Rashid is an industrial designer. His designs include furniture, lighting, surface design, brand identity and packaging. His colour and patterns will inspire your own designs for a colourful jigsaw.



Manufactured boards

MDF	Chipboard	Plywood
		
Tiny particles (dust) of recycled wood glued & compressed together	Small particles (size of coffee granules) of recycled wood glued & compressed together	Layers of wood glued & compressed together (laminated together)
Used for furniture, cabinets, flooring	Used for flat-pack furniture, kitchen worksurfaces and kitchen cupboards	Used for furniture, and making buildings e.g. floor and roof

Natural Woods

Softwoods	Hardwoods
	
Have large, broad leaves	Have small needles for leaves
Grow in warmer countries - need long, warm summers	Can survive in colder countries with long winters
Have fruit, seeds or nuts	Have cones – they are coniferous – sometimes berries
Tall, thin trunks	Wide, short trunks
Grow quickly – 60+ years	Grow slowly – 150+ years
Produces cheap timber	Produced expensive timber
Evergreen – keep their leaves all year round – they are survivors	Deciduous – lose and regrow their leaves every year - hibernators
e.g. pine, cedar, spruce, deal, yew, larch, cypress	e.g. oak, birch, beech, teak, mahogany, apple, ebony, ash, cherry, walnut, tulip

Keywords – you must know what these all mean and be able to spell them:

PVA glue	Chipboard
Glass paper	MDF
Deciduous	Plywood
Evergreen	Laminated
Pillar drill	Glass paper
Drill bit	Dowel
Coniferous	Wood finish
Scroll saw	Chuck key
Jig	Junior hacksaw
Bench hook	Wood stain
Belt sander	Specification
Marking out	Isometric
Brief	Market research
Aluminium oxide paper	Manufactured board



Bench hook

Junior hacksaw



Y7 Textiles – Monsters

EXPLORE	DEVELOP	CREATE	EVALUATE
Pupils will explore the techniques and work of Pop Artists such as Andy Warhol and Michael Craig Martin, whilst using the overarching theme of Portraiture and Who we are	They will develop ideas through experiments with a range of 2D and 3D materials using personal objects, inspirational people and masks as inspiration.	Pupils will create a series of observational drawings in a range of media including pencil and collage and create a mask inspired their explorations.	Pupils will reflect on and retrieve knowledge and skills learnt and developed to bring together a final outcome through sketchbook work and 3D outcomes.

ESSENTIAL KNOWLEDGE- You will Learn That

Running stitch is a basic embroidery stitch that most learners will start with. The needle is pushed down into the fabric before coming back up in the same movement if possible. The needle and thread are then pulled upwards through the fabric to leave a flat stitch on the surface. This action is then repeated



Zig zag adjuster
1= straight
2 - 5 = zigzag

Length of stitch adjuster
1-5 NEVER 0

Techniques and Processes- You will learn how to use

Tie dye is a technique using elastic bands which block dye, to create patterns.



Key Practitioners



Jon Burgerman &

Louise Evans

Jon Burgerman is a UK born, trained at NTU, NYC based artist, famed for his instantly recognisable drawings, doodles, characters and murals.

Welsh fashion designer and textile artist **Louise Evans** who goes by the name of **Felt Mistress**; uses felt and other fabrics, to bring to life imaginative characters of all different shapes and sizes.

Her creations have appeared in television commercials, shop window displays, exhibitions and music videos across the world.

Materials & Equipment

pins	Embroidery thread	unpickers	Ironing board	Sewing needle	Elastic bands
Sewing machine	Bobbin	Iron	Dye	Felt	Thread



WHIP STITCH APPLIQUE

Topic Terminology

Textiles is the study of fibres and fabrics.

Fibres are the filaments or staples that make a yarn.

Fabric is made from yarn that is held together by weaving, knitting or felting

Cotton is a natural, staple fibre that comes from the seedpod (boll), of the cotton plant and is woven or knitted to make many fabrics like gingham, calico and denim.

Felt is a dense, non-woven fabric and without any warp or weft. Instead, felted fabric is made from matted and compressed fibres or fur with no apparent system of threads.

Appliqué is ornamental needlework in which pieces or patches of fabric in different shapes and patterns are sewn or stuck onto a larger piece to form a picture or pattern. It is used as decoration, especially on garments. The technique is either hand stitching or machine

Computers need to **store**, **process** and **communicate** information.

Computers use sequences of symbols to represent information.

Information in computers must be represented in a form convenient for processing

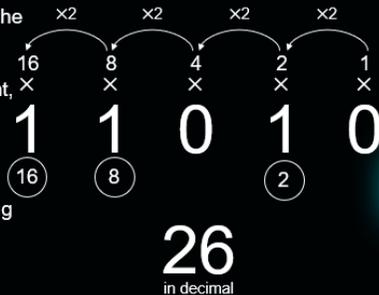
Convert binary to decimal: Instructions

Write multipliers over the bits:

Start with 1 on the right, and double as you go from right to left.

For each bit set to 1, select its corresponding multiplier

Add up the selected numbers: the sum is the decimal number.



To convert bits to bytes:
Divide the number of bits by 8

Because this is how many groups of 8 bits, i.e. bytes, 'fit' in the sequence.



To convert bytes to bits:
Multiply the number of bytes by 8.
Because there are 8 bits in every byte.



Key term	Definition
ASCII	American Standard Code for Information Interchange – A Character encoding format for text data
Base 10	A numbering system using 10 digits (0 to 9)
Base 2	A numbering system using 2 digits (0 and 1)
Binary digit/bit	The symbols that digital devices to represent information
Byte	A group of eight binary digits/bits
Character	Any number, letter or symbol
kilo-	thousands
mega-	millions
giga-	billions
tera-	trillions
Sequence	
Switch	An electronic device that controls the flow of electricity

<https://app.edublocks.org/>

Key Terms	
Algorithm	list of instructions used to carry out a task.
Sequence	Running instructions in order
Selection	When your code makes a choice
Iteration	When your code does the same thing more than once
Variable	A name that refers to data being stored by the computer
Comparison operator	e.g. ==, >, <, >=, <=, !=
Logic Operators	e.g. AND, OR, NOT
Count-controlled iteration	When we want to run commands a set number of times.
Condition-controlled iteration	When we want to run commands until the condition set is no longer being met.
Debugging	The process of finding an error in your code and taking steps to fix the problem.

Name and download your project here

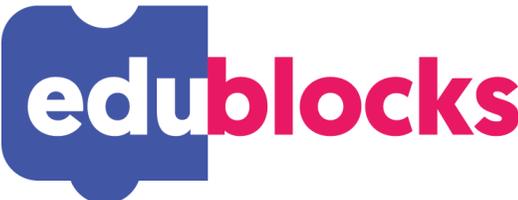


Select here to run your code

Tool box

Block code

Python code

Imports	Variables	Statements	Logic
Useful if you need a random number or time functions.	Used to create variables.	This is where you go for input or output.	Go here for if statements or if you need to use comparison operators.
 Imports	 Variables	 Statements	 Logic
Loops	Math		
Iteration can be found here (for loops and while loops).	Go here for your mathematical operators.		
 Loops	 Math		