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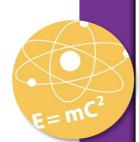
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Context – The play was written by William Shakespeare, and was first performed around 1594.

Shakespeare's Time – Shakespeare wrote his plays at the time of two monarchs. Queen Elizabeth I and lames I. Romeo and fuliet was written relatively early in Shakespeare's career (the bulk of his tragedies were written in the 17th careury) yet was extremely popular in his lifetime, as it is now. Shakespeare borrowed heavily from two texts. The Tragical History of Romeo and fuliet (1562) and Palace of Pleasure (1567)

Religion – The heavy religious presence is evident across several parts of Romeo and fuliet. This is reflective of a society across Europe that was deeply religious (predominantly catholic or protestant). Several characters demonstrate their commitment to the church, such as Romeo and Juliet who choose to marry rather than fornicate, and the Capulets, who are quick to contemplate that Juliet is in a better place (heaven) after she is found 'dead.'

Shahespeare, the belief in both astronomy and the supernatural was far more preeminent than in society today. The reference to 'star-cross'd lovers demonstrates the large role of horoscopes and planet positions in being used to predict fate. Also, Romeo and Juliet make reference to the fact that they feel they are being guided by a supernatural force (e.g. 'fortune's fool).

Elizabethan England and Italy –Shakespeare frequently engaged with Italy in his plays, leading many to believe that he travelled there between the late 1580s and early 1590s. Italy was a place that Shakespeare's contemporaries would have had a keen interest in; it was already an advanced and beautiful place for travel. Shakespeare's depictions of many areas of Italian life at the time are deemed largely accurate.

Patriarchal Society —Society throughout the Middle Age and at Shakespeare's time was patriarchal — women were considered inferior to men. This was also the case in much of Europe, including Italy. Women belonged to their fathers (or brothers if their fathers had died) and then their husbands, so Juliet would be expected to obey her father. Women were not permitted to own land or enter most professions. They were instead expected to bear children, be gentle and womanly.

Healthcare and Medicine – Healthcare and medicine were not as advanced in Shakespeare's age as they are today – there were numerous ailments and diseases that were not yet understood. This makes it much more believable for both the Capulets and Romeo that Juliet could have died so suddenly and so young. The high death count in the play would seem slightly more common in those days!



Main Characters - Consider what Shakespeare intended through his characterisation of each of the below

Romeo – The son and heir of Lord and Lady Montague. Romeo is handsome and intelligent, yet he is also impulsive and extremely sensitive. Romeo is a peaceful character, and is not interested in the cup violence that goes on around him, choosing instead to focus his of Rosaline at the outset) his commitment can't be debated in the end!

First Scene: Act I Scene II Final Scene: Act V Scene III Prince Escalus – The most powerful character in the play, with the authority to govern the other characters and administer sentences. He is also a kinsman to Mercutio and Paris. As the seat of Verona, his paramain concern throughout most of his appearances are in relation to denorate the death of Tybalt, as opposed to sentencing him to death.

First Scene: Act I Scene I Final Scene: Act V Scene III

Montague and Capulet — The patriarchs of the Montague and Capulet families, who have held a long and violent feud with one another from some time before the play begins. Both seem to deeply love their respective child, yet do not always seem another from some time before the play begins. Both seem to deeply love their respective child, yet do not always seem appropriately aware of their emotional wellbeing. For example, is is Romeo chooses to walk the streets in melancholy rather than share his feelings with his father, and Capulet feels the best thing for Juliet Shawould be a marriage with Paris.

Juliet – The daughter of Capulet and Lady Capulet. Juliet is a beautiful young girl (13 years old at the start of the play). Juliet is caring, compassionate, and at times demonstrates courage (she defies her parents in order to marry Romeo, and drinks the contents of the vial without fully trusting its effects). At times, she shows great intelligence and wit, particularly in conversations with her mother.

First Scene: Act I Scene III Final Scene: Act V Scene III

Mercutio - A kinsman to the prince and one of Romeo's closest

friends. Mercutio is an extraordinary character in that he has sparkling wit and a vivid imagination. Much of Mercutio's speeches deal in puns and word-play. He appears to see himself as being above the vices of love, choosing instead to view it as misplaced sexual appetite. His hot-headedness is eventually his downfall.

First Scene: Act I Scene IV Final Scene: Act III Scene I Friar Laurence and the Nurse act as guidance counsel for Romeo and Juliet. They appear to be the two people that Romeo and Juliet trust more than any others in the world, as they are the two that they confide in. Friar Laurence is kind and civic-minded (believing the marriage may heal the feud), whilst the Nurse is kind and sentimental (yet at times vulgar). She seems as though she is more of a mother to Juliet than Lady Capulet has ever been.

Themes - A theme is an idea or message that runs throughout a text.

Love – In Romeo and Juliet, love is an extremely <u>overpowering</u> force that supersedes all other values, emotions, and loyalties. Through their love, Romeo and Juliet conspire to go against the forces of their entire social world. Romeo returns to visit Juliet at points, even though he is well aware of the threat of death. At times, love is presented as fickle (Mercutio's speeches, Romeo + Rosaline).

Individual vs Society – Romeo and Juliet are forced to undermine the <u>oppressive rules of society</u> at the time. For example, rules of the patriarchal family force Juliet to be subservient to her parents, rules of religion mean that they must marry in haste, and rules of masculinity force Romeo into conflict with Tybalt.

Violence – Extreme violence takes place sporadically throughout the play. The feud between the two families is so bitter that the mere sight of each other can be the cause of a fight to the death. Unchecked violence is personified through the character of Tybalt. The violence culminates in Act 3 Scene 1, in which both Mercutio and Tybalt are murdered.

Fate – In the first address to the audience, the Chorus states that Romeo and Juliet are 'star-cross'd' lovers, meaning that fate had intended for their paths to cross, and that fate controls their actions. A series of unfortunate accidents towards the end of the play thwart Friar Laurence's plan and eventually manifest in both Romeo and Juliet committing suicide, thus adding to the sense of fate.



		cene-by-ycene yallimary - lake note of the key quotations from each scene.
Prologue	The Chorus speaks of an ancient grudge between two households, from which two star-crossed lovers' appear.	From forth the fatal kins of these two fees A pair of star-crossed lovers take their life
Act 1 Scene 1	A street brawl breaks out between the Montagues and Capulets. The Prince intervenes. He threaters the death sentence for anyone who breaks the peace again.	To old Free-toum, our common judgment-place. Once more, on poin of death, all men depart.
Act 1 Scene 2	Paris speaks of his desire to marry Juliet to Capulet. They arrange a masquerade ball so that he can begin to woo her. Peter accidentally invites Romeo and Bervolio.	One fairer than my love? The all-seeing sun Ne'er saw her motch since first the world begun.
Act 1 Scene 3	Lady Capulet discusses the prospect of fullet getting married to Paris. She dutifully says that she will look upon him.	I'll kook to like if kooking liking move/ But no more deep will I endort mine eye/ Than your consent gives strength to make it fig.
Act 1 Scene 4	Before the ball, Mercutio mocks Romeo. He gives his 'Queen Mab' speeds. Romeo fears the night will set fate in motion.	O, then I see Queen Mab has been with you She is the fairies' midwife
Act 1 Scene 5 Each	Romeo and Juliet meet at the ball. They immediately fall for each other – Romeo uses metaphors to compare her to a pilgrim. Tybalt spots Romeo and wants to kill him, but Capulet stops him. Romeo and Juliet learn that they are from warring families.	If I profane with my unworthiest hand This holy shrine, the gentle sin is this. My lips, two blushing plignims, ready stand To smooth that rough touch with a tender kiss.
Act 2 Prologue	The charus returns and delivers a sonnet about the new love.	But passion lends them power, time means, to meet,
	Bervolio and Mercutio search for Romeo, who has escaped them in the hope of re-finding Juliet.	Go then, for 'this in vain To seek him here that means not to be found
Act 2 Scene 2 ho	The famous "balcony scene." Romeo decides that he cannot go home without seeing Juliet again. He trespasses into her garden, where she appears at a window. They decide that they will wed.	If that thy bent of love be honorable, Thy purpose marriage, send me word tomorrow, By one that I'll procure to come to thee.
Act 2 Scene 3	Romeo visits Friar Laurence to ask if he will wed him to Juliet. Whilst shocked at how fickle Romeo's love is, he agrees.	Thy love did read by rate that could not spell. But come, young waverer, come go with me,
~	omeo arrives to meet Mercutio and Benvolio. The Nurse and	The sovereignty will fall upon Macbeth.
Act 2 Kene 4	Peter then arrive, and Mercutio makes fun of the Nurse. When Mercutio leaves, Romeo arranges with the Nurse for Juliet to meet him at Friar Laurence's chamber.	Bid her devise/ Some means to come to shrift this afternoon. And there she shall at Friar Lawrence' cell Be shrived and married.
Act 2 Scenes 5-6	The Nurse sends fullet to Friar Laurence's cell, where they are married. The Friar warns them to love moderately.	But come what sorrow car, It cannot countervail the exchange of joy/ That one short minute gives me in her sight.
Act 3 Scene 1	Tybalt duels Mercutio. Romeo tries to make peace, but Tybalt stabs Mercutio dead under Romeo's arm. In rage, Romeo kills Tybalt. The Prince arrives and exiles Romeo.	"Ask for me tomorrow, and / you shall find me a grave man"
Act 3 Scene 2 Of	The Nurse tells Juliet of the fight. Juliet is traumatised by the idea of an exiled Romeo. The Nurse says she knows where he is hiding.	O nature, what hadst than to do in hell! When than didst bower the spirit of a fiend! In moral paradise of such sweet flesh?
Ro Act 3 Scenes 3-4	omeo despairs at hearing of being banished. The Friar makes a plan for him to visit Juliet before leaving. Elsewhere, Capulet	There is no world without Verona walls But purgatory, torture, hell itself.
+	contacts Paris and arranges for Juliet to marry him. Romeo reluctantly leaves Juliet. Her mother then tells of the	Hence "banishèd" is banished from the world, Hang thee, young baggage! Disobedient wretch!
\dagger	marriage to Paris. She rejects it. Capulet threatens to disown her. Multet meets Frior Lourence, soving that she would nother bill	I tell thee what get thee to church o' Thursday,
Act 4 Scenes 1-2	herself than marry Paris. Friar Laurence proposes the sleeping potion plan. She agrees, returns to her parents, and repents.	Take thou this vial, being then in bed, And this distilled liquor drink thou off,
Act 4 Scene 3	Juliet is scared, but drinks the contents of the vial.	Romeo, Romeo, Romeo! Here's drink. I drink to thee.
Act 4 Scenes 4-5	The Nurse finds Juliet dead on her wedding morning. The family are distraught, but agree to make the funeral arrangements.	O me, O me! My child, my only life, Revive, look up, or I will die with thee!
Ro Act 5 Scene 1 will	Romeo is told of the death by Balthasar. Romeo decides that he will return to Verona to kill himself. Before doing so, he purchases poison from an apothecary.	Well, Juliet, I will lie with thee tonight. Let's see for means. O mischief, thou art swift
Act 5 Scene 2 inf	Friar Laurence learns that Romeo has not received his letter informing him of the plan, and is worried. He doesn't know that Romeo now thinks that Juliet is dead.	Unhappy fortune! By my brotherhood, The letter was not nice but full of charge,
Act 5 Scene 3 Ro	Romeo finds Juliet's body and kills himself. She awakens and kills herself. Montague and Capulet commit to resolve.	For never was a story of more woe Than this of Juliet and her Romea

	Dramatic	Dramatic Devices in Romeo and Juliet	Features of a Tragedy in Romeo and Juliet
	Dramatic Irony	Mercutio and Benvolio think Romeo is still pining over Rosaline, but the audience knows he has moved on to Juliet. A2 S1	Tragic Hero - A main character cursed by fate and possessed of a tragic flaw (Romeo, and to an extent Juliet).
	Soliloquy	Juliet's opening speech in A3 S2 in which she pours her heart out over her love for Romeo.	Juliet's opening speech in A3 52 in which she sours her heart out over her love for Romeo. Hamartia - The fatal character flaw of the tragic hero (his passion and impulsiveness).
	Aside	Juliet secretly hopes for the 'villain' Romeo: Villain and he be many miles asunder God pardon him! A3 55.	Catharsis - The release of the audience's emotions through empathy with the characters.
Page	Foreshadowing	Friar Laurence: These violent delights have violent ends, And in their triumph die, like fire and powder, A2 56	Internal Conflict - The struggle the hero engages in with his/her fatal flaw.

MMMR and tables

Key vocabulary

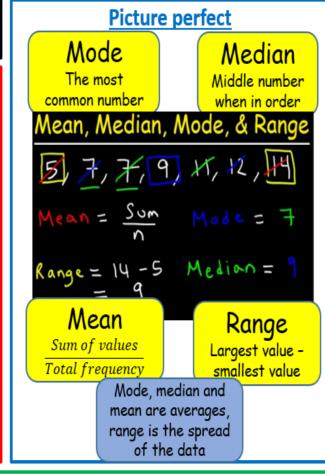
<u>Mode</u> – the number which appears most often in a set of data

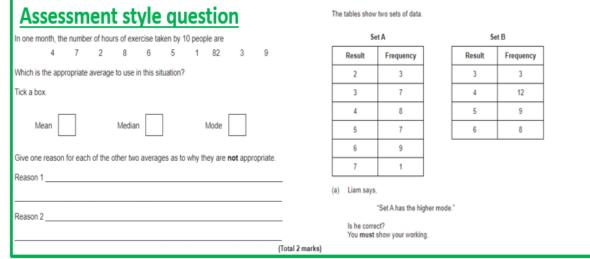
<u>Median</u> - the middle number when the numbers are placed in numerical order. If there are 2 numbers in the middle you add and halve to find the middle of these numbers.

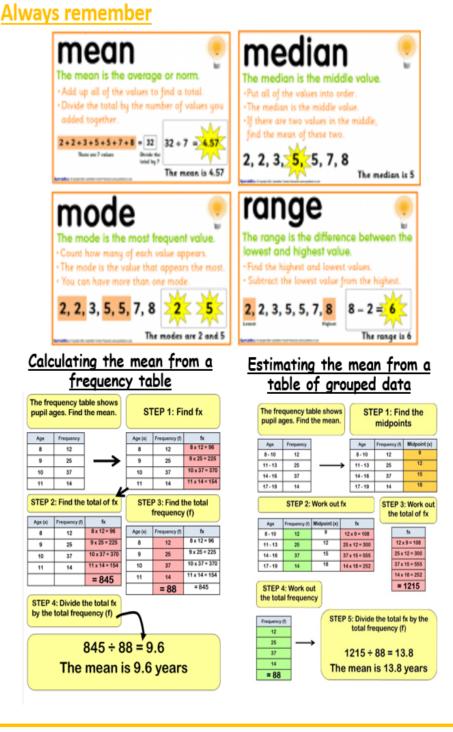
<u>Mean</u> - a calculated central value which represents a set of data. To calculate the mean; add up all the value and divide by how many numbers there are.

Range - the difference between the largest and smallest value. This shows the spread of the data. The smaller the range the more consistent the data.

Average - the group name given to refer to mode, median and range. Outside of Maths, when a number is stated as the average it generally is referring to the mean.







Frequency Tables

These are a useful and clear way of displaying data

E.g. The table below shows the scores out of ten for 20 students

Mark	Tally	Frequency -	Frequency means how often
4	II	2	something occurs
5	II	2	
6	III	4	
7	##	5	This means 5 students
8	III	4	scored 7 marks in their test
9	II	2	scored / marks in their test
10	1	1	

Grouped Frequency Tables

These contain sorted data in groups called classes E.g. The table below shows the ages of people taking swimming

Class Interval	Frequency	Total frequency will tell you the total number of people
15-25	60	taking swimming lessons
25-35	35	
35-45	22	This magne 19 pagnia who
45-55	18	This means 18 people who took swimming lessons were
55-65	15	between the ages of 45 and
asses or class		55

Comparative Bar Charts

The table shows the number of cars sold by Kitty and George in the first four months of 2014.

	January	reutuary	march	April		
Kitty	2	. 5	13	10		
George	4	7	9	10		
14 7		Carsa	iles			
10 12 8 10 B			H		Key Kitty George	The chart has a ke to make it easier to understand.
Number o						A comparative bar chart allows you to easily compare the number of cars Kitty and
	Jan	Feb	Mar	Apr		George sold each month.

Charts

Two-Way Tables

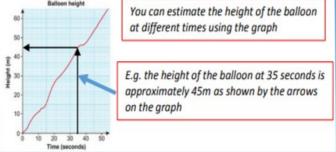
These are used to show how data falls into 2 different categories For example gender and favourite sport to watch

What is your favorite sport to watch on television?					
	Football	Basketball	Baseball		
Males	40	22	15		
Females	12	16	45		
Total	52	38	60		

A two-way table divides data into groups in rows going across and columns going down the table

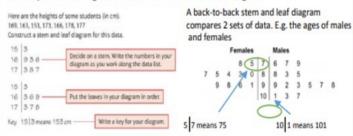
Time-Series Graph

These are used to show how something changes over time. It is a line graph with time plotted along the horizontal axis For example the height of a balloon at different times



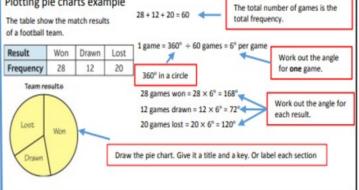
Stem and Leaf Diagrams

This shows numerical data split into a 'stem' and 'leaves'. The leaf is usually the last digit and the stem is the other digits.

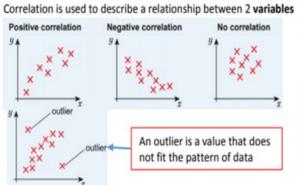


Pie Charts

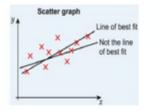
This is a circle divided into sectors. Each sector represents a set of data. Pie charts are excellent for displaying the most/ least popular type of something.



Scatter Graphs A scatter graph allows you to see the relationship between 2 sets of data. E.g. your height and your stride length.



This is a straight line drawn through the middle of the points on a scatter graph. It should pass as near as many points as possible and represents the trend of the points.



Plotting pie charts example

A line of best fit can be used to predict data values within the range of data given.

This is called interpolation

It can also be used to predict data values outside the range of data given.

This is called extrapolation.

Transformation

Key vocabulary

Reflection:

A shape is reflected across a lint to create a mirror image. The shaped is flipped over.

Rotation:

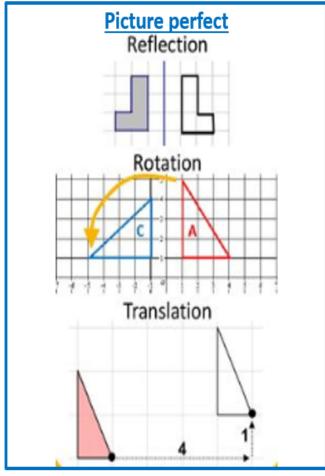
Circular movement about a fixed point which turns a shape.

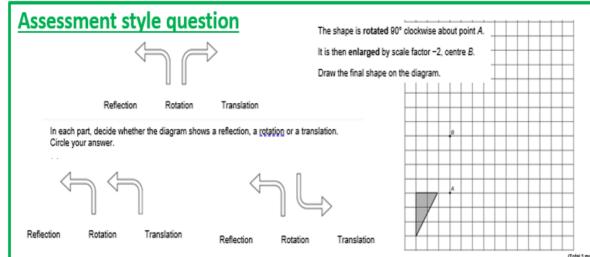
Translation:

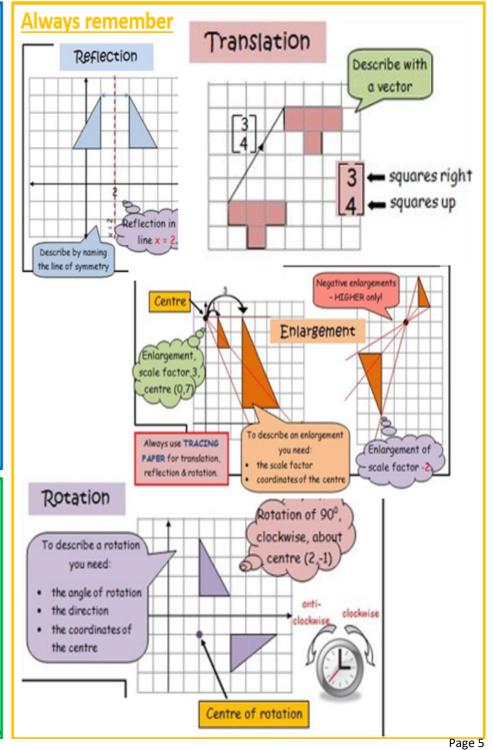
Moves a shape a certain distance in a certain direction.

Enlargement:

Make a shape larger or smaller by a scale factor with a given centre.









ATHERTON Science: Electricity and Magnetism

1. Circuit symbols / components						
Cell	- -	Battery	⊣ı ⊢			
Bulb	$-\otimes$	Motor	M			
Switch	~~~	Closed switch	— 			
Ammeter	A	Voltmeter				
Resistor		Variable resistor	- <u>-</u> -			

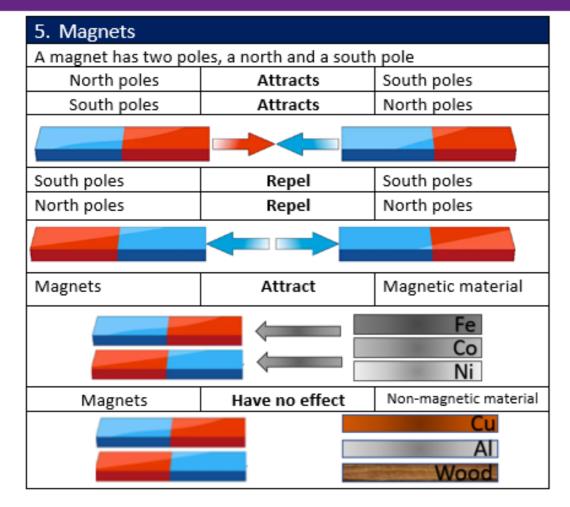
2. Series and parallel circuits		
Series circuit	Parallel circuit	
Only one loop	More than one loop	
If a component breaks, circuit will not work	If component breaks, rest of the circuit will work	
Current is the same everywhere in the circuit	Current is shared between the different loops	
Potential difference is shared between	Potential difference is the same across	
components in the circuit	all components	
e∧ ∧ B∧ ⊗ ∧ 3∧	ev S vev S vev	

3. Power				
Power	How much energy is tran (W)	sferred per second, measured in watts		
Current	Is the flow of electrons around a circuit, measured in amps (A)			
Potential difference	The force that pushes the current around a circuit, measured in volts (V)			
Power rating	Power rating States how quickly an appliance uses energy			
Power can be calculated using these equations				
Power (W) = Energy (i) Power (W) = potential x current Time (s) difference (V) (A)				

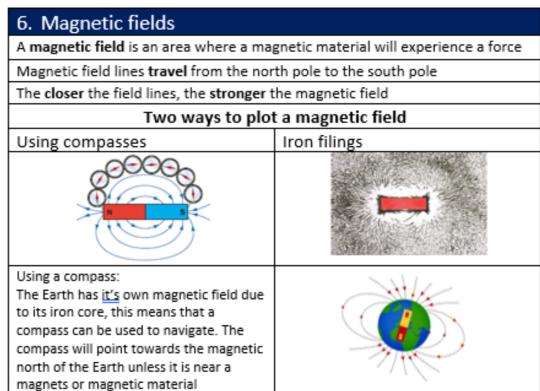
4. Generating electricity						
No	n-renewable en	ergy	Renewable energy			
I	nnot be replaced	d in our	Can be replaced in our lifetime			
Examples: fossil fuels (coal, gas, oil) & nuclear resources			Examples: wind, tidal wave, biomass, solar, hydroelectric and geothermal			
Generating electricity at a power station						
1	Coal		2			
2	Chimney]				
3	Steam	3				
4	Turbine	1 1 1 1 1				
5	Generator	1	7			
6	Boiler	111				
7	Electricity out					
un wa	el is burnt derneath ter in the iler	Water is heat and turns int steam				



Science: Electricity and Magnetism



Cl	Challenge Questions				
1	1	Describe why we should increase our use of renewable energy sources.			
2	2	You have 3 pieces of metal, aluminium, iron and magnet. How could you work out which metal each one was?			
3	3	Which would be more expensive, using an 1800W hair dryer for 20 minutes or a 2800W iron for 10minutes? Use calculations to justify your answer			
4	4	Sarah sets up a circuit and it does not work, only one part of the circuit is faulty. How can she problem solve to work out which piece of equipment of faulty.			

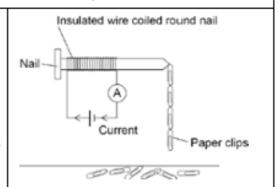


7. Electromagnets

Electromagnets are magnets that can be turned on and off. They are used in everyday items such as door locks, alarm bells and loud speakers

The factors affecting the strength of an electromagnet can be investigated using a simple experiment with an iron nail, a coil of wire, a power source and steel paperclips.

The more paper clips that the electromagnet picks up, the stronger it is. The number of coils or current in the wire can be changed to see how these changes affect its strength





Science: Energy

1. Energy stores

Energy is in different energy stores and is measured in Joules (J).

Energy is needed to do 'work'.

Chemical	Stored in food, fuel and batteries	FUEL
Electrostatic	Stored when particles have charge	***
Magnetic	Stored when magnetic poles come together	
Elastic potential	Stored when a material is stretched or squashed	F. S.
Nuclear	Stored in the nucleus of an atom, and the Sun	
Thermal	Stored in objects that are warm	8
Kinetic	Stored in objects that are moving	
Gravitational potential	Stored in objects that have height	20

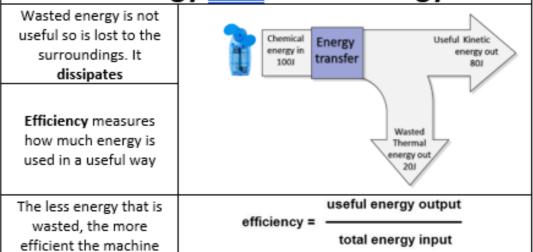
Energy can be transferred between stores in different ways

By heating
 Mechanically
 Electrically
 By radiation

2. Conservation of energy

Energy **cannot be created or destroyed**, only transferred from one store to another.

Total energy in = Total energy out

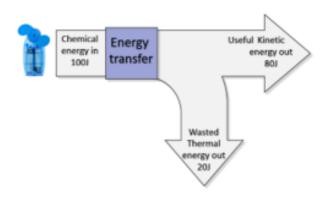


3. Heat and temperature		
Heat	A store of thermal energy, measured in Joules (J)	
Temperature	A measure of how much thermal energy a substance has	
Thermometer	Used to measure temperature	
Degrees Celsius °C	The units for measuring temperature	



Science: Energy

4. Heat trans	fer - conduction
Conduction	The transfer of thermal energy by vibration of particles
Conductor	A material that easily transfers thermal energy through vibrating particles
Insulator	A material that does not easily transfer thermal energy through vibrating particles
As energy is added, particles collide, transferring that energy to the surrounding particles	Heat Heat



Challenge Questions		
1	What energy transfer would take place when a hairdryer is switched on?	
2	Calculate the efficiency of the fan in the diagram	
3	Why do solar panels have a black outer layer?	
4	Explain how a radiator warms a room in the winter	

Heat transfer - convection

As particles near the heat source are heated, they spread out and become less dense, so they rise.

Cooler, more dense particles will take their place at the bottom.

This creates a constant flow of particles.

This is known as a convection current



6. Heat transfer - radiation

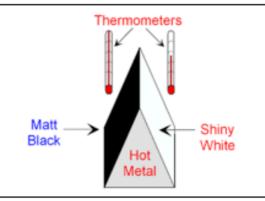
Radiation is method of transferring energy without the need for particles.

Thermal energy is transferred from the Sun to the Earth in this way as there are no particles in space. This is known as **infrared radiation** and it travels as an energy wave. The hotter an object, there more infrared radiation it will **emit**.

The surface of objects effects the amount of infrared radiation it can emit, absorb and reflect.

Matt black is the best surface for emitting and absorbing infrared radiation

Shiny white surfaces are the best at reflecting infrared radiation



Key Vocabulary...

Name	Purpose
HTML HyperText Mark-up language	This language is used to make the structure of a webpage and can be thought of a like a skeleton.
CSS Cascading Style Sheets	Code used to format a webpage and add style to it.
Tags	Instructions that are placed inside the
Web browser	Software needed to view webpages. Examples include Microsoft Edge, Google Chrome and Apple Safari.
DIVs	Code used to split up different parts of the webpage.
Hyperlink	Written code on a webpage that lets a user jump to another page or website.
Lists	Lists can be ordered or unordered on a webpage. These can used to make nav bars
Head	The part of the webpage that you don't see which has important information like the title in it. This is important as Google searches here when bringing back results.
Body	The bit of the webpage that you can see content on.
Nav Bar	A row of buttons, usually at the top of the page that gives options to go to different pages.

Subject: HTML and CSS

SP3

 ∞

Year

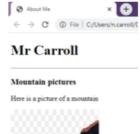


</html>

Picture This...

The above code will produce this website.

This can be made using a simple text editor.



Useful Tags

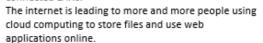
Tag	Purpose
<html> </html>	Indicates that you going to write a webpage
<head> </head>	This holds the title, style tags and metadata about the page.
<title>
</title>	This is the title that appears in the browser and search engine results.
<body> </body>	This defines the main section of the webpage.
	Starts a new paragraph
<h1> </h1>	Heading tags H1 – largest heading H6 – smallest heading
 br>	This is used to create a new line in the webpage.

Questions

- . Which tag would be used to create a break in the webpage?
- Which tag would be used to create different sections on a webpage?
- Which language is used to add style to a webpage
- What is the name of the software that allows you look at website? Name as many examples of these as you can.
- Explain the purpose of both the head and body sections of a webpage.

Deeper Learning...

The internet is a global network of computers that any computer can join. It is a WAN - which is a series of connected LANs.



Technologies and services available over the internet include:

 web pages – HTML documents that present images, sound and text accessed through a web browser



Activity – Using a simple text editor such as Notepad ++ or online software such as repl.IT, create a webpage which has colour, images and text on it

Key Vocabulary...

Purpose

steps.

Designing and planning out a solution in an organised way.

unnecessary information from a problem to make it easier to

Breaking a difficult problem down into easy to manage

A 2-digit number system used by computers which uses the

A 10-digit number system used by humans which uses the

A 16-digit number system used

by humans which uses the digits 0,1,2,3,4,5,6,7,8,9 and the letters A, B, C, D, E, F

An error when the computer tries put a bigger number in a

A single letter, number or a

A group of characters such as

ASCII, extended ASCII and

Unicode.

punctuation such as !, ?.

smaller number of bits.

Removing all of the

A binary unit - 0 or 1.

digits 0,1,2,3,4,5,6,7,8,9.

digits 0 and 1.

Name

Abstraction

Decomposition

Binary

Denary

Hexadecimal

Overflow error

Character

Character set

Representation

Data

Subject:

SP4

 ∞

Computational Thinking



Picture This...

Always Remember...

Converting a Hexadecimal number to a denary number. 0x56

Step 1: Place the hex number above the nibbles.

		,	
8	4	2	1
0	1	0	1

6				
8	4	2	1	
0	1	1	0	

Step 2: Put the nibbles together to make a byte.

128	64	32	16	8	4	2	1
0	1	0	1	0	1	1	0

Step 3: Add the placeholder values up where there is a 1.

64+ 16 +4 +2 = 86

0x56 = 86

Binary	Hex	Decimal
0000	0	0
0001	1	1
0010	2	2
0011	3	3
0100	4	4
0101	5	5
0110	6	6
0111	7	7
1000	8	8
1001	9	9
1010	A	10
1011	В	11
1100	С	12
1101	D	13
1110	E	14
1111	F	15

Use this table to help with your conversions.



Questions

Deeper Learning...

- Which number system is used by a computer. Explain why this is?
- What is it called when a computer tries to put a bigger number into a smaller space?
- What is it called when you break a problem down into smaller steps?
- 4. Why do we use hexadecimal numbers?
- Convert the following hex numbers to binary. 0c56, 0x7e, 0x6d, 0x3e, 0xA9, 0xBB, 0xCF, 0xFF
- Convert the following hex numbers to denary. 0xe3, 0xd4, 0xe2,0xfd,0x2d

Character sets are made up of binary numbers which represents a letter or number.

Below is a table which shows the binary code (what the computer uses) for some letters.

Char	Binary	Hex	Denary
В	01000010	42	66
b	01100010	62	98
3	00110011	33	51

Activity - Write out your name in using binary code, then convert that code to Hex.

Key Voc	abulary
Aesthetics	How something looks including shape and colour.
Accuracy	The quality or state of being correct or precise. Free from errors.
Thermoplastic	A type of plastic that can be re heated and shaped to make new products.
Thermosetting	A thermosetting plastic is a plastic which becomes irreversibly hardened when heated and moulded into shape. Can not be recycled.
JIG	A jig is used to make sure that parts are made exactly the same, without the need for marking out. For example, when drilling through a block of wood with two holes in, it will make sure that the holes are drilled in the same place in each component.
Target Market	To whom the product is aimed at or designed for.

CAD/CAM

Computer Aided Design – In school we use 2D Design, in the industry they use AutoCAD, we also use sketch Up for virtual model making.

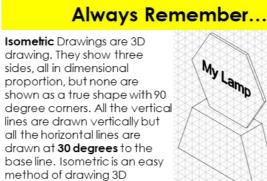
Computer Aided Manufacture – In school we manufacture products using a laser cutter and 3D printer. They also use laser cutters and 3D printers in industry but on a larger scale. They also use CNC milling machines and other computer controlled devices to manufacture different products.







images.



Picture This... A light emitting diode provides a source of light. It is energy efficient, LED small, available in different colours and brightness and has a long lifespan. A component that joins and breaks part of a circuit to connect or isolate SWITCH the supply of electricity. A fixed value component that reduces the amount of electricity able to pass through part of the RESISTOR circuit. Made from a mixture of carbon (to conduct) and ceramic (to isolate. A printed circuit board mechanically supports and connects electrical components PCB using conductive tracks. A USB lead (Universal Serial Bus) are used mostly to connect computers to peripheral devices **USB LEAD** such as cameras and printers, in our case, yourlamp.

Tools & Equipment

Vacuum Former	
Pillar Drill	
Strip Heater	
Soldering Iron	1

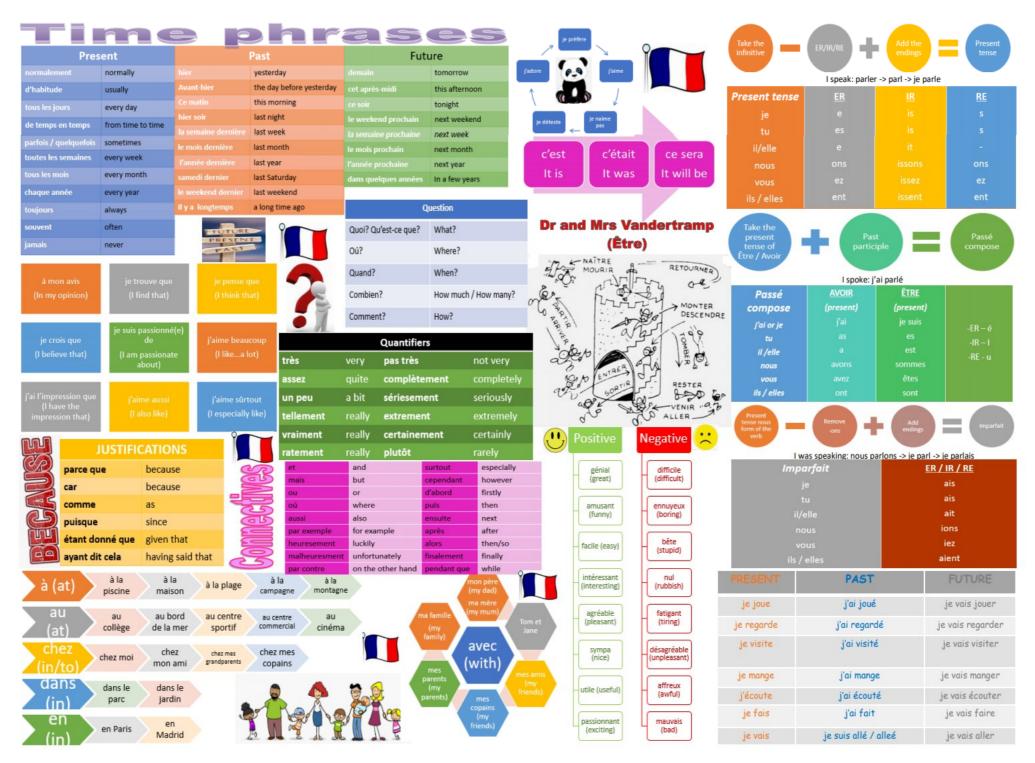
The BIG question..

How might thermosetting plastics, be bad for the environment?

nber... Deeper Learning...

Plastics are made from oil which is a fossil fuel. We have to drill deep into the earth to extract the oil and this can cause disruption to wildlife, sea life and their habitats. The burning of crude oil to make plastic products, produces CO2 emissions, which pollutes the earth's atmosphere.

Activity – Take some isometric grid paper home with you and practice drawing objects, that you can find around the house. Remember to bring your designs in to show your class mates.



Page 13

Y8 KNOWLEDGE ORGANISER: Natural forms.

Key Vocabulary...

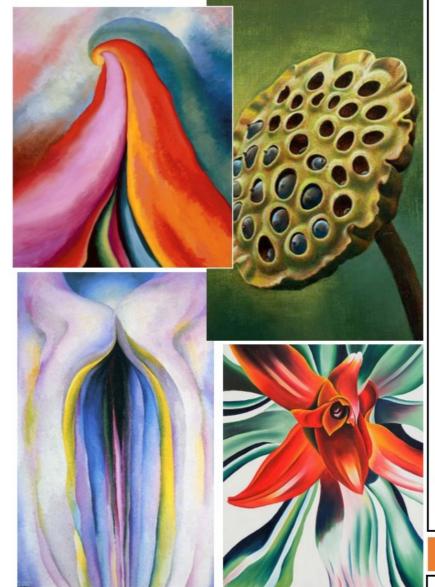
GEORGIA O'KEEFFE	an American artist.
CHARACTERISTICS	a feature or quality belonging typically to a person, place, or thing and serving to identify them.
EXPERIMENTAL	(of art or an artistic technique) involving a radically new and innovative style. Trying something new.

Always remember..

NATURAL FORMS	Natural form is an object in nature in its original form. Examples:- leaves, flowers,		
	pinecones, seaweed, shells, bones, insects, stones, fossils, crystals, feathers, birds, fish, animals – in fact anything you can find in nature.		
	Not something that is manmade.		
OBSERVATIONAL DRAWING	Drawing from an object that is placed in front of you and only drawing what you can see.		
COLOUR	The process of changing the colour of something by painting, dyeing or shading it.		
TEXTURE	the feel, appearance, or consistency of a surface or substance.		



Picture This...



Deeper Learning...

Georgia Totto O'Keeffe (November 15, 1887 – March 6, 1986) was an American artist who painted nature in a way that showed how it made her feel. She is best known for her paintings of flowers.

She played an important part in the development of modern art in America, becoming the first female painter to gain respect in New York's art world in the 1920s. Her unique and new way of painting nature, simplifying its shapes and forms meant that she was called a pioneer.

Georgia knew from the age of 12 that she wanted to be an artist. She went to art school but what she was taught there didn't seem relevant to the way she wanted to paint. Then in 1912 she discovered the revolutionary ideas of an artist and designer called Arthur Wesley Dow. He emphasised the importance of composition – which means how you arrange shapes and colours.

The Big Question...

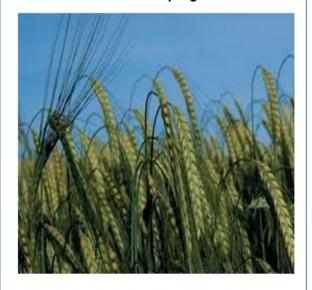
How can we use shape and colour to represent Natural Forms?

Activity: Go into the outdoors and find a variety of natural forms then look closely at their textures and patterns. Can you paint and print with them?

Biscuits

There are different ways to make biscuits and different types of coatings and fillings. Biscuits are often used as a sweet treat but there are also types of savoury biscuits which can be used for snacks eg crackers oatcakes. Sweet biscuits contain sugar but savoury types do not, they make be flavoured with herbs or cheese.

Sustainability ingredients



Oats are a sustainable food which means that producing them doesn't harm the environment. Oats are grown in a field and when they are harvested, the soil is <u>turned</u> and new seeds are planted for next <u>years</u> crops. Oats are grown in Scotland because they grow ell in a cooler climate with lots of rain.

They also need lots of space to grow and there is a lot of farmland in Scotland.

YEAR 8 KNOWLEDGE ORGANISER 4

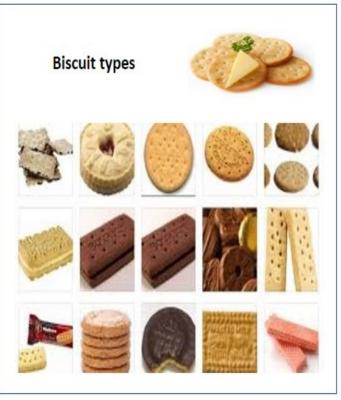
Nutrition - The eatwell plate



In this project, we make some healthier types of biscuits. All biscuits contain sugar and <u>butter</u> but these ingredients can be swapped for healthy options which include brown sugar and margarine. We can also add other healthy ingredients as flavours eg nuts and raisins or other types of fruit. Fillings and toppings for biscuits are frequently unhealthy eg chocolate, cream fillings are high in sugar so plain biscuits are a healthier choice.

In this section we use oats which are a good source of protein, dietary fibre and vitamins as well as carbohydrate.

Mixture Dough Knead Weigh Baking tray Oats Plain flour	<u>Key</u> <u>vocabulary</u>	Creaming Sweeten Roll Texture Essence Protein Fats Carbohydra
Energy		te
Energy Bulk		



Water
Power of
ar 8 -
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aphy
eogr

Key Vocabulary		
River	A river is a natural flowing watercourse, usually freshwater, flowing towards an ocean, sea, lake or another river	
Glacier	A glacier is a huge mass of ice that moves slowly over land.	
Erosion	Erosion is the process that breaks things down.	
Weathering	Weathering describes the breaking down or dissolving of rocks and minerals on the surface of the Earth.	
Flood	Flooding occurs when the river bursts its banks overflowing onto the area surrounding the channel.	
Tourism	Tourism means people travelling for fun. It includes activities such as sightseeing and camping. People who travel for fun are called "tourists"	

Boscastle Flood 2004

An estimated 440million gallons of water swept through the picturesque town on 16 August 2004, after heavy rainfall led to the bursting of banks and the convergence of three rivers.

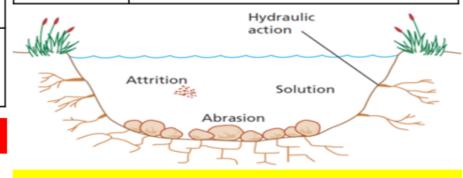
A total of 58 properties were flooded while four others were completely destroyed.

Around 100 people had to be plucked to safety by emergency teams, after mounting their roofs to escape the rising waters.

The town suffered millions of pounds worth of damage but as residents will also say of that day – it was astounding that nobody died.

4 Processes of Erosion

	Hydraulic action	This is when the force of water erodes softer rock.
	Abrasion	This is when large pieces of bedload material wear away the river banks and bed.
	Attrition	This is when the bed load itself is eroded when sediment particles knock against the bed or each other and break, becoming more rounded and smaller.
	Solution	This is when finer sediment is dissolved and eroded by the minerals in the water.



Tourism in the Lake District

The Lake District is a region and national park in Cumbria in northwest England. A popular vacation destination, it's known for its glacial ribbon lakes, rugged fell mountains and historic literary associations. Market towns such as Kendal, Ambleside and Keswick on scenic Derwentwater are bases for exploring the area and home to traditional inns, galleries of local art and outdoor equipment shops. Current surveys show that 15.8 million visitors come to the Lake District each year. Most come to enjoy the scenery, peace and quiet and walking but many others visit specific attractions or take part in an outdoor activity.

Picture this...



Corrie



The BIG questions..

- Label a diagram of the step by step process explaining the process of the formation of a waterfall.
- Explain the process of how a corrie is formed.

Deeper Learning...

Much of Britain was covered by ice during several "Ice Ages" over the last 500,000 years. The most recent one ended only 10,000 years ago. Glaciers and ice sheets scoured the landscape, wearing away the rocks to form glacial landscapes in the Scottish Highlands, Lake District and North Wales. In the coldest periods, the ice would have been hundreds of metres thick, and reached as far south as London. Material eroded by the ice was left behind as the glaciers retreated, forming Boulder Clay (till) deposits that cover many parts of eastern England.

Activity: Create a holiday brochure (leaflet) encouraging tourists to visit the Lake District – it should be well detail and have appropriate/important information- useful for a tourist wanting to visit the area.



Asia - Overview, the world's largest and most diverse continent. It occupies the eastern four-fifths of the giant Eurasian landmass. Asia is more a geographic term than a homogeneous continent, and the use of the term to describe such a vast area always carries the potential of obscuring the enormous diversity among the regions it encompasses. Asia has both the highest and the lowest points on the surface of Earth, has the longest coastline of any continent, is subject overall to the world's widest climatic extremes, and, consequently, produces the most varied forms of vegetation and animal life on Earth. In addition, the peoples of Asia have established the broadest variety of human adaptation found on any of the continents.

Peoples Republic of China: Overview

Size: The world's 3rd largest country - 9.6 million sq km.

Time zones: It has 11 time zones.

Population: 1.42 Billion people – It is has the largest population in the world. **Politics:** It is run by the Communist Party, with the leadership of the country decided internally by the party, rather than by democratic elections. It has state run media and many websites are not allowed to be accessed from the country. It even limits the number of western films released every year.

Landscapes: China has a varied landscape, from alluvial plains to mountains and lakes. It is also has some of the largest rivers in the world.

History: China is rich in history and culture. From the Great Wall of China to the Terracotta Army, China is a country filled with history and culture.

Russia: Overview

Size: The world's largest country - 17.1 million sq km. That's about 70 times bigger than the UK. It is in two continents: Asia and Europe.

Time zones: It has 11 time zones.

Population: 144 million people – only about 2.3 times more than the UK. The capital is Moscow (12 million people).

Empty in places: Huge areas of Russia are empty. You can't reach them by road or rail.

Landscapes: Frozen tundra, vast forests, grassy plains, sunny beaches, mountains, volcanoes, and long long rivers. Russia has it all!

Natural wealth: Russia is rich in natural resources: oil, gas, coal, timber, metals, and diamonds. It depends heavily on exporting oil and gas.

Homework Project – Country focus. For a country in Asia, put together a project looking at its human and physical geography. Include size, population, history, physical features, cities, rivers coast and any other significant features. Make sure you include lots of information, facts and detail. Try and find some amazing facts that not many people know.

Civil Rights Movement The ∞ History: Year

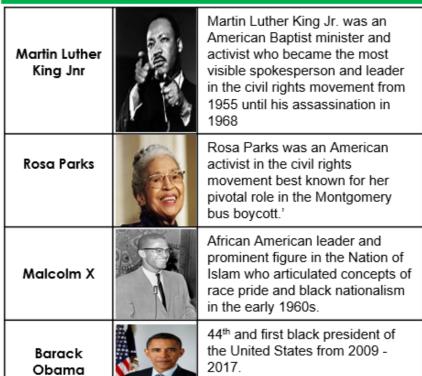
	Key Vocabulary			
Civil Rights		The rights of all citizens to political and social freedom and equality		
Ab	olition	The act of ending a system or practise		
Emancipation NAACP Jim Crow Laws		The process of giving people social or political freedom and rights		
		National Association for the Advancement of Coloured People		
		The system of racial segregation in the South, separated blacks from whites in all aspects of public life		
Ear	ly timelin	e for racial equality		
1863 Emancipation Proclamation made by President Lincoln		,		
rights under		Act of 1866 guaranteed equal r law for all people who lived urisdiction of the United States		

1865	Civil Rights Act of 1866 guaranteed equal rights under law for all people who lived within the jurisdiction of the United States
1868	Fourteenth Amendment to the U.S. Constitution granted citizenship to all people born or naturalized in the United States
1870	Fifteenth Amendment to the U.S. Constitution granted African American men the right to vote
1875	Civil Rights Act of 1875 guaranteed African Americans equal treatment in public

accommodations, public transportation, and

prohibited their exclusion from jury service

Key individuals...



Always Remember...

Religious groups, student organizations and labour unions all took part in massive protests to raise awareness and to accelerate the momentum for federal civil rights legislation. The March on Washington for Jobs and Freedom was the largest civil rights protest in US history, and contributed to the successful implementation of the Civil Rights Act of 1964 and the Voting Rights Act of 1965.

Mass direct action was highly effective, particularly due to widespread news media coverage of nonviolent protestors being harassed and physically beaten by law enforcement officers.



The BIG questions..

1957

- Rosa Parks is the most significant person in the 20th century civil rights movement. How far do you agree with this statement.
- 2. Which of the strategies employed by civil rights activists do you think was most effective?

Deeper Learning...

An increasing number of African
Americans, particularly young men and
women believed that the non violence
strategy did not go far enough. The Black
Power movement argued they should
focus on creating economic, social and
political power of their own and did not
discount the use of violence

Activity – Research and create a biography om Malcolm X (a profile and facts about). Include his religious beliefs, the organisation he was linked to and how he tried to achieve his aims.

Key Vocabulary		
Colony	A land controlled by another nation.	
Imperialism	The policy of extending a country's power by expanding their empire.	
Colonization	Occurs when one nation takes control of another, conquering its population and exploiting it, often while forcing its own language and cultural values upon its people.	
Commerce	The exchange of goods and services, especially on a large scale	
Empire	A group of countries ruled by a single person, government, or country	
Exploration	The period beginning during Tudor times when Britain looked for new places to take over.	

The Scramble for Africa

In 1880 the continent of Africa was largely unexplored by Europeans. Explorers and missionaries began mapping the interior of Africa. Adventurers like Henry Stanley revealed that Africa was full of raw materials that could be exploited to fuel the industrial revolution. They saw it as a new place to invest the money made in industry.

By 1910, through a process of invasion, occupation, colonization and annexation only Liberia and Ethiopia remained unconquered by them. The rest - 10 million square miles with 110 million people - had been carved up by five European powers in the name of Commerce, Christianity, 'Civilization' and Conquest.

Key individuals... Queen of the United Kingdom of Queen Victoria Great Britain and Ireland. On 1 1819 - 1901 May 1876, she adopted the additional title of Empress of India. Mohandas An Indian lawyer and anti-colonial (Mahatma) nationalist, who used non violent Gandhi resistance to lead the successful campaign for India's independence from British Rule. Rhodes was an imperialist, **Cecil Rhodes**

Robert Clive



businessman and politician who founded the colonies of Southern and Northern Rhodesia in southern Africa in the late 19th Century.

East India Company's military commander-in-chief in India. Fought in the Battle of Plassey and secured control of Bengal for the British.

The East India Company

The East India Company was formed in 1600. It was established to exploit trade from India and South East Asia. The company went on to become the largest commercial venture in the world. It traded independently until its nationalisation in 1858. As the East India Company's trade grew it came to dominate large areas of India and South East Asia. The East India Company is seen by some as a ruthless exploitative force who plundered India in particular. However others saw it a force for good with it role in creating the Jewel in the Crown and the enormous wealth gained from British trade across the region.

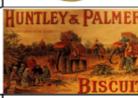
Picture this...

Flag of the East India Trading Company



Advert using Empire to biscuits

Countries in the empire 1900 (red)



The BIG questions..

- 1. The main reason for the expansion of the British empire was to spread religion. How far do you agree with this statement
- 2. Explain what is meant by the term 'the Empire on which the Sun never sets'?

Deeper Learning...

Britain believed that Christianity was the superior religion and that British culture and government were the superior forms of life and rule. These ideas were important in directing the policies of British businesses, churches and the government in pushing forward the expansion of the British Empire in Asia and Africa.

Activity - Research and create a biography (a profile and facts about) on at least one of the key individuals associated with the British Empire.

Key Vocabulary			Key individuals			
_	Domestic System	System in place before the Industrial Revolution where people would produce cloth in their own homes.	George Stephenson		A pioneering railway er inventor of the 'Rocket' famous early railway lo	
	Industrial Revolution	Period in British history in which society moved to a focus on machines, factories, and industry. Large factories and machines were built to do things people used to do by hand. Therefore many people moved from rural areas to urban areas seeking work.	lsambard Kingdom Brunel		One of the 19th-century giants. He built dockyar steamships and numer bridges and tunnels. Hi revolutionised public tramodern engineering.	
	Tenements	A new kind of cheap housing that was constructed. Here, dozens of families resided under one roof.	James Hargreaves	1	James Hargreaves was and inventor who lived England. He is credited inventing the spinning i	
	Cholera	A disease which is caused by bacterial infection of the intestines, and can kill within hours. It spreads through drinking water, which is infected with the bacteria or with sewage.	Sir Humphrey Davy		He invented the Davy la miners to help detect ga improve safety.	
	Social Reformers	People who wanted to improve public health, social conditions and the lives of the poor.		times worked (Id Labour up to 19 hours a day, with a	
	Workhouse	A place where poor people who wanted help from the government could go to get accommodation and employment.		total break. This was the extreme, but it was not uncome children who worked in factories to work 12-14 hours workeds. Not only were these children subject to long hours, but		
	Plack Cold		were in horrible conditions. It was very common for chil			

Black Gold

Coal was needed in vast quantities for the Industrial Revolution. Before 1700 coal came from mines that were near to the surface and was relatively easy to get to. The development of factories further increased demand for coal. As a result, coal mines got deeper and deeper and coal mining became more and more dangerous.

engineer and et', the most locomotive.

iry engineering ards, Railways, erous important His designs transport and

as a weaver d in Lancashire, ed with jenny in 1764.

lamp used by gas and

a one-hour mmon for with minimal

t also, they nildren to be using or working near large, heavy, and dangerous equipment. Many accidents occurred, injuring or killing children on the job.

Not until the Factory Act of 1833 did things improve. Children were paid only a fraction of what an adult would get, and sometimes factory owners would get away with paying them nothing.

Orphans suffered even more, factory owners justified this by saying that they gave the orphans food, shelter, and clothing, all of which were poor quality.

Picture this...

Stephenson's Rocket



Spinning Jenny



Child labour coal mining



Inside a Victorian workhouse



The BIG questions..

- 1. How far do you agree with the statement that "the railway was the most important invention of the industrial period?"
- 2. Explain why the Industrial revolution changed some area more dramatically than others

Deeper Learning...

In 1750, only about 15% of the population lived in towns. By 1900 it was 85%. This meant that there were far more people around to work in new industries but also caused problems because many more people needed foods and homes. This meant that poverty was increasing.

Activity - Create a timeline from 1700 to 1900 to show all the major developments of the industrial revolution in the UK. There should be at least one event for every 20 years.

	Key Vocabulary
Human Rights	A right which belongs to every person. The Universal Declaration of Human Rights was issued in 1948 - it set out basic rights that every human being was entitled to such as FREEDOM, SHELTER, SAFETY, NOT TO BE A SLAVE and EDUCATION.
Social Justice	A fair distribution of wealth and opportunities such as housing and education.
Wealth	Financial assets (things) that can be used in a transaction (bought and sold). These can include property, raw materials and money.
Poverty	The state of being extremely poor and not having enough basic things that a person needs (This can include education)
Prejudice	Feeling towards another person or group that is not based on evidence but pre-conceived (ideas and thoughts that are already there) feelings.
Discrimination	Unfair treatment of people or groups based on gender, sexuality, race, religion and skin colour.

What is a 'Living Wage'?

Living wage refers to a wage level that allows an individual to afford adequate shelter, food and the other necessities. A living wage should be substantial enough to ensure that no more than 30% of it gets spent on housing. Finland has started paving a basic income of €560 a month to randomly selected unemployed people. Finland has become the first country in Europe to pay its unemployed citizens a monthly wage, in a social experiment that will be watched around the world amid gathering interest in the idea of a universal (for everyone in the world) basic income.

Key People



One of the best-known Christian leaders who fought against racial prejudice and discrimination was Martin Luther King Jr, an American clergyman, activist, and leader in the African-American Civil Rights Movement.

Love your enemies and pray for those who persecute you.' (Matthew 5:44)

Nelson Mandela was a tireless campaigner for equality and justice who spent 27 years in prison for his beliefs. In 1994 he became the first president of South Africa to be elected by all the people, black as well as white. He worked to take end the old racist system (apartheid) of government and to make South Africa a fairer society for all its citizens.



Mother Teresa was a Roman Catholic nun who believed God called her to work with the poor and dying in Calcutta (the capital of the Indian state of West Bengal). Her example helps people experience God's love and care for the poor and encourages others to do the same

Always Remember...

When we look at Christian Ethics we are looking at how Christian values such as PEACE, LOVE and RESPECT are applied in the 'real world'

UNCHR + UNCRC

UNCHR

The Universal Declaration of Human Rights (UDHR) is a milestone document in the history of human rights. Drafted by representatives with different legal and cultural backgrounds from all regions of the world, the Declaration was proclaimed by the United Nations General Assembly in Paris on 10 December 1948 (General Assembly resolution 217 A) as a common standard of achievements for all peoples and all nations. It sets out, for the first time, fundamental human rights to be universally protected and it has been translated into over 500 languages.



UNCRC

The United Nations Convention on the Rights of the Child (commonly abbreviated as the CRC or UNCRC) is a human rights treaty which sets out the civil, political, economic, social, health and cultural rights of children.

In the Parable of the Good Samaritan, Jesus uses the example of the Jew and the Samaritan, who would not ordinarily have been friendly towards each other. However, out of all those who could have helped the Jew, only the Samaritan did. Jesus tells of a man who was travelling from Jerusalem to Jericho and was attacked by robbers on the way. He was badly beaten and left for dead.

- The first person to pass the injured man was a priest, who crossed the road and continued walking.
- The second person to pass the injured man was a Levite, a priest's assistant. He also crossed the road and continued walking without helping the man.
- . The third person to come by was a Samaritan, a person from Samaria. The Samaritans were hated by the Jews. When the Samaritan saw the man, he took pity on him. He bandaged him and cleaned his wounds. He then put him on the back of his donkey and took him to an innkeeper, whom he paid to look after him.

The parable ends with Jesus giving a commandment to go out and do the same as the Samaritan had done. The key message was that you should Love thy Neighbour. Jesus defined any other person as a neighbour

Activity - Everybody in the U.K should be given a living wage of £12,000 a year. (a person in work would have their wage added to this but there would be no benefit system). How far do you agree with this statement? Write an essay arguing FOR and AGAINST this statement with your own conclusion at the end.

Shahada

Shahada is the declaration of belief in the oneness of God (Allah) and the acceptance of Muhammad as his messenger.



Salat

Muslims must perform ritual prayers five times every day, facing the holy city of Makkah/Mecca.

The Five Pillars of Islam are an important part of Muslim life. The Five Pillars are five things that all Muslims must do so that they can live a good and responsible life.

Hajj Hajj is the annua pilgrimage to Makkah/Mecca in Saudi Arabia. All Muslims who are

able to travel

must make this

trip at least once

in their lifetime.



During the Islamic month of Ramadan, Muslims are expected to abstain from food and drink between dawn and nightfall.

Zakat Muslims are expected to give a portion of their income to charity.



Activity - Produce a guide to a mosque. This guide could be a labelled diagram (inside and outside) or a booklet which identifies the key features of a mosque and why it is important to Muslims.

Always Remember.

- · Islam is the religion
- · Muslims are the followers of Islam
- Muslims believe in one true God (Allah)
- Allah is the Arabic word for God.
- · There are nearly 2 billion Muslims in the world today and 3 million in the UK

Key Beliefs

Islam was founded by the Prophet Muhammad. For over twenty years Prophet Muhammad received special messages from Allah. These messages were brought to him by the archangel Jibril. These messages were written down by the Prophet's companions (friends), and together they form the Qur'an/Koran, the Islamic holy text.

Mosque/Worship

Muslims prepare themselves for worship through wudu which is a method of washing their body. This prepares them physically and mentally for their time of worship to Allah. Muslims worship in a building called a mosque. Prayers are led by a priest called an imam, who is an important part of the Muslim community. Muslims can also perform their daily prayers away from the mosque if it is more convenient. However, it is essential that the environment they pray in is suitable for showing respect to Allah, for example that it is clean and tidy, and free from distractions.



	Key Terms 1—Film Music	Key	Terms 2-Music Theory		
Specially Composed Music	Some music is composed specially for a film. Much of this is broadly classical in style.	Bass Clef	A musical symbol indicating to performers to perform the notes and a certain (low) pitch		
Borrowed Music	Some music used in film soundtracks was composed for other purposes but is adopted for use in a film because it	Chord	A series of notes played together at the same time e.g. the James Bond Leitmotif		
Cue Sheet	matching the visual action of a film so	Concord	A chord where the notes sound 'comfortable' or 'happy' with each other e.g. chord of C major		
	that composers can time their music accurately to match the visual images.	Discord	A chord where the notes sound like they 'clash' together – often producing a 'tense' feel		
Diagetic	Music that is part of the action: the characters in the film can hear it.	SI-CH-DH-B			
Non- Diagetic	Music that is not part of the action: the characters in the film cannot hear it. It is just for the audience.	Crescendo	Gradually getting louder		
Leitmotif	A short melody that is associated with a character or idea in a film. E.g, James Bond has his own leitmotif.	Pitch	Horror movie composers often extremes of high and low pitch when creating musical soundtracks to create a feeling		
Sound- track	The word "soundtrack" can often mean a commercial recording of a		'tension' and 'suspense'		
track	collection of music and songs from a film sold individually as an audio CD.	Repeat Marks	A musical symbol made up of two dots and two bar lines, telling the performer to go back to the beginning (or to the previous repeat marks) and repeat the music		
Theme Song	Sometimes a song, usually a pop song, is used as a theme song for a film. This helps with marketing and publicity	3			
Under Score	Where music is played at the same time as the action or dialogue.	1			

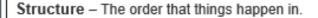
You could listen to some music written by the three composers above whilst doing your homework

Year 8 HT 4 - Film Music **Knowledge Organiser**



John Williams Hans Zimmer Danny Elfman

Key Terms 3—Music Technology	
Syncing/ Sync Point	A precise moment where the timing of the music needs to fit with the action.
Timecode	A time synchronisation tool that every film maker must use to make sure that the visuals, dia- logue and music are all in time.
MIDI (Musical Instrument Digital Interface)	MIDI connects devices that make and control sound — such as synthesizers, samplers, and computers — so that they can communicate with each other.
DAW (Digital Audio Workstation)	A comprehensive piece of soft- ware that allows your computer to record, edit, mix and pro- duce music. Ableton live is a popular DAW.



First... then... this is followed by... at the end.

Binary Form - Music in two parts Section A and Section B.



Section B contrasts Section A in some way. Usually both sections are repeated.

Rondo Form – The opening section keeps returning, with contrasting sections in between.

Section A, Section B, Section A, Section C, Section A.

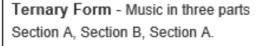


The contrasting sections are called 'episodes'

STRUCTURE

Song Form

Intro Verse Chorus Middle 8 Bridge Outro





The 2nd Section A can be an exact repeat of the 1st Section A, or a slightly altered version.

Strophic Form - Same music repeated each section.
Section A, Section A.



e.g. Hymns, Folk Songs..

Minuet & Trio – Dance founded in 17th-18th Century Europe. In Triple time and moderato. Both are in binary form. Trio is like a second Minuet but contrasting in some way.

Mir	Minuet		Trio		uet
Section A (Repeated)	Section B (Repeated)	Section A (Repeated)	Section B (Repeated)	Section A (No Repeat)	Section B (No Repeat)
In tonic key. Ends with key change.	In related key. Ends with change back to tonic key.	More contrast – new key or change of instruments. Ends with key change.	In related key. Ends with key change back to starting key of trio.	Keys are same as firs	st time playing Minuet.

Variation Form – A theme / section is then followed by other sections (variations), changing and developing the first theme / section in different and imaginative ways.

Theme	Variation 1	Variation 2	Variation 3
The original idea / section	There are many ways you can transfe Change the instrumentation, tempo, I Use imitation, inversion, sequence, d Developing harmonies without the tu	key, harmony, metre, rhythm	the style

YEAR 8- TERM TWO- KNOWLEDGE ORGANISER

Vocabulary %	
Term Definition	
Recall	To bring something back into your mind, to remember
Spoken Thoughts	The inner feelings of a character said out loud to the audience
Characteristics	A collection of features used by an actor to create a character different from themselves
Duologues	A performance by two actors
Contrast	When two or more things a very different from each other
Stimulus	Something which causes a response and inspires you to create something
Chair Duets	Using a variety of improvised moves, as pairs, based on two chairs to convey a message
Marking the Moment	When a dramatic technique is used to highlight a key moment
Tension	A certain atmosphere created by the actors through their performance skills
Reaction	To use a variety of expressions to show how you feel about something

Deeper Learning

Before you develop a character whether it be from a script or one you have built yourself you should always think about what you want the audience to understand and possibly learn from your performance. Once you know this you can develop your character accordingly. If you don't know what message you want to deliver to your audience then how can you create and perform the right character with the right characteristics? Always think about your aim first.

Check you progress...

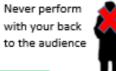
Do you consistently take an active role in the development of your drama?

Do you create and perform work including all the key features of techniques?

Do you develop an appropriate atmosphere for each task?

Can you demonstrate appropriate reaction for each of your characters?

Always Remember



Your expressions and your emotions must match!



Your work can always be improved





Make sure your voice is loud and clear



A spoken thought is always what the character is thinking not a comment on the action



Focus, focus, focus!



Feedback must always be helpful



Always listen to the ideas of others as well as voicing your own



Your movement during your chair duet must always be based on or around the chairs



When you react to another character, always make sure it is the character's reaction and not your personal one

Dual Coding

You can use music as well

as drama techniques to

mark a moment



MARKING THE MOMENT



Music



Repetition







Spoken Thoughts

Eye Contact



Music

Pictures

News Stories

Historical Events Traditional Stories

> Song Lyrics Personal Experiences





Volume



Reaction

Facial ex/ Physicality



Mannerisms

Status

Script Work



The name of the character speaking the lines is usually above the speech or in bold at the side.

If there is more than one dot after the speech it means the next character interrupts.

Stage directions are usually in brackets or italics and could be at the start of a scene or in between speeches.

Specific directions for a specific actor are usually found above or below that character's speech.

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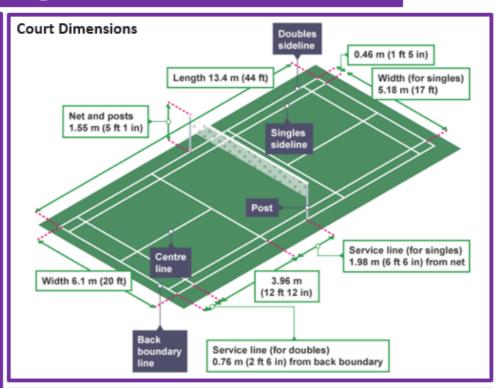
Subject Knowledge Organiser Badminton – Rules, Scoring & Officials

Rules

- ☐ A match consists of the best of three games of 21 points.
- ☐ The player/pair winning a rally adds a point to its score.
- ☐ At 20-all, the player/pair which first gains a 2-point lead wins that game.
- ☐ At 29-all, the side scoring the 30th point wins that game.
- ☐ The player/pair winning a game serves first in the next game.
- A badminton match can be played by two opposing players (singles) or four opposing players (doubles).
- ☐ A competitive match must be played indoors utilising the official court dimensions.
- ☐ A point is scored when the shuttlecock lands inside the opponent's court or if a returned shuttlecock hits the net or lands outside of the court the player will lose the point.
- ☐ At the start of the rally, the server and receiver stand in diagonally opposite service courts.
- ☐ A legal serve must be hit diagonally over the net and across the court.
- □ A badminton serve must be hit underarm and below the server's waist height with the racquet shaft pointing downwards, the shuttlecock is not allowed to bounce. After a point is won, the players will move to the opposite serving stations for the next point.
- ☐ The rules do not allow second serves.
- ☐ During a point a player can return the shuttlecock from inside and outside of the court.
- ☐ A player is not able to touch the net with any part of their body or racket.
- ☐ A player must not deliberately distract their opponent.
- A player is not able to hit the shuttlecock twice.
- ☐ A 'let' may be called by the referee if an unforeseen or accidental issue arises.
- ☐ A game must include two rest periods. These are a 90-second rest after the first game and a 5-minute rest after the second game.

Always remember: If yours or your opponents score is even you serve/receive from the <u>right hand</u> side, if it is odd you serve/receive from the left.

Always <u>remember:</u> serve, return, clear, flick, serve, drop shot, smash shot, drive shot, backhand, forehand, service line, tram lines, base line, net, umpire.



Scoring

In recent years, badminton has changed how players can score a point. In 2006, the rules were changed to a rally point system and this now allows both players to score a point during a rally, regardless of who served.

In competitive adult matches, all games are played to a best of three games. To win a game, a player must reach 21 points. However, if the game is tied at 20-20 (or 20-all) then you are required to win by two clear points. Unlike most sports, however, if the score becomes 29-29 (or 29-all), the player or team to score the 30th point will win the game.

<u>Progress Vocabulary: Identify, Define, describe, explain, compare and contrast,</u>
sporting links, analyse, evaluate Page 26

Subject Knowledge Organiser Badminton – Forehand Clear, Forehand Drop Shot & Forehand Smash

Forehand Clear

The forehand clear shot enables players to move their opponent to the back of the court, creating space in the mid and front court to exploit.

Stage one

Stand in position on the balls of your feet, with knees slightly bent. Turn sideways with your left foot pointing towards the target and your right foot parallel to the baseline. The left shoulder and fully extended elbow will be pointing towards the shuttlecock. The racket elbow should be extended backwards behind the head at 90° with the face of the racket above head height. Transfer weight onto the back foot.

Stage two

Keep your eyes on the shuttlecock. Flex your wrist and elbow backward until the racket is parallel with the floor. Rotate your body and step forward towards the shuttle with your racket leg, transferring your weight through the shot. Extend your racket elbow upwards into a throwing position.

Stage three

Keep your eyes on the shuttlecock. Extend your racket elbow quickly towards the shuttlecock, with the non-racket arm rotating backwards. Make contact with the shuttlecock as high as possible in front of your body. Extend your elbow and flex your wrist on contact, to allow for a 'whip' action. Drive the shuttlecock with a high trajectory towards the back of the court.

Stage four

Your body should have fully rotated with your racket foot now bearing all the weight and facing towards the target. The racket will follow through finishing to the left hand side of your body. Return back to ready position for the next shot.

Forehand Drop Shot

The forehand drop shot enables players to move their opponent to the front court to either win a point or create space in the mid and back court to exploit.

Stage one

As the shuttlecock is returned, stand in position on the balls of your feet, with knees slightly bent. Turn sideways with your left foot pointing towards the target and your right foot parallel to the baseline. The left shoulder and fully extended elbow will be pointing towards the shuttlecock. The racket elbow should be extended backwards behind the head at 90° with the face of the racket above head height. Transfer weight onto the back foot.

Stage two

Keep your eyes on the shuttlecock. Flex your wrist and elbow backward until the racket is parallel with the floor. Rotate your body and step forward towards the shuttlecock with your racket leg, transferring your weight through the shot. Extend your racket elbow upwards into a throwing position.

Stage three

Keep your eyes on the shuttlecock. Extend your racket elbow towards the shuttlecock, with non-racket shoulder rotating backwards. Make contact with the shuttlecock as high as possible in front of your body. Extend your elbow and flex your wrist on contact. Slice across the shuttlecock with the face of the racket slightly open, or just before contact, slow the speed of the racket down, tapping the shuttle gently over the net. Hit the shuttlecock at a flat trajectory, allowing it to drop just over the net.

Stage four

Your body should have fully rotated with your racket foot now bearing all the weight and facing towards the target. The racket will follow through, finishing to the left hand side of your body. Return back to ready position.

Forehand Smash

The forehand smash shot is hit with power and speed downward into the opponent's court. The angle/steepness of the shuttlecock's trajectory make it hard for the opponent to return.

Stage one

As the shuttlecock is returned, stand in position on the balls of your feet, with knees slightly bent. Turn sideways with your left foot pointing towards the target and your right foot parallel to the baseline. Left shoulder and fully extended elbow will be pointing towards the shuttlecock. The racket elbow should be extended backwards behind the head at 90° with the face of the racket above head height. Transfer weight onto the back foot.

Stage two

Keep your eyes on the shuttlecock. Flex your wrist and elbow backward until the racket is parallel with the floor. Rotate your body and step forward towards the shuttle with your racket leg, transferring your weight through the shot. Extend your racket elbow upwards into a throwing position.

Stage three

Keep your eyes on the shuttlecock. Extend your racket elbow quickly towards the shuttlecock, with the non-racket elbow extended and shoulder rotating backwards. Make contact with the shuttlecock as high as possible in front of your body. Extend your elbow and flex your wrist on contact, to allow for a 'whip' action. Drive the shuttlecock downwards towards the floor of your opponent's court with a low trajectory.

Stage fou

Your body should have fully rotated with your racket foot now bearing all the weight and facing towards the target. The racket will follow through, finishing to the left hand side of your body. Return back to ready position for the next shot.

Subject Knowledge Organiser Football – Rules, Player Positions & Pitch Dimensions

Rules

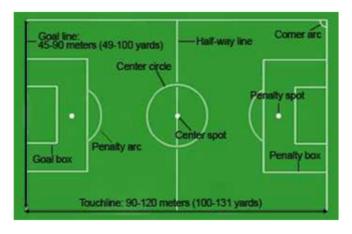
- A senior football match consists of two 45-minute halves and must have a 15-minute break in the middle.
- □ A team can start with a maximum of 11 players, of which one is the designated goalkeeper.
- ☐ To continue a match, a team must have a minimum of 7 players on the field.
- ☐ A team is able to make substitutions at any time of the match and are able to make a maximum of three changes.
- ☐ A competitive game must be officiated by a referee and two assistant referees, also known as linesmen.
- ☐ The whole ball must cross the goal line for it to constitute a goal.
- □ A referee may award a foul if they believe an unfair act is committed by a player. A foul contravenes the laws of the game and can be given for a range of offences (for example, kicking the player, pushing, handball etc.).
- ☐ Fouls are punished by the award of a free kick (direct or indirect, depending on the offence) or penalty kick to the opposing team if it is committed in the penalty box.
- ☐ In cases of foul play, a referee can penalise players with either a yellow or red card. A yellow card gives a player a warning about their conduct and a red card requires them to leave the pitch.
- In the event that a player receives two yellow cards, the referee will automatically show a red card.
- ☐ A throw-in is awarded to a team if the opposition kicks the ball over the side-lines.
- A corner kick is awarded to a team if the opposition kicks the ball over the goal line and either side of the goal posts.
- A player is deemed offside if they are in front of the last defender when a teammate passes the ball through to them.

Key Words: Passing, dribbling, close control, knee, chest, thigh, head, attacking header, defensive header, block tackle, slide tackle, lofted pass, chipped pass, side foot pass, jockeying, corner, throw-in, centre circle, corner flag, penalty, agility, balance, co-ordination, power, reaction time, speed, muscular endurance, cardiovascular fitness, flexibility.

Player Positions



Pitch Dimensions



Always remember:

When tackling an opponent always keep your eyes on the ball, do not dive in as this may lead to a foul being committed

Subject Knowledge Organiser Football – Short/Long Pass, Control, Block Tackle, Throw In & Heading

Short pass A short side foot pass enables a team to quickly pass a ball and help maintain possession. It is used for accuracy. Move parallel to the ball and place your non-kicking foot to the side of the ball. Keep your eye on the ball until you have it under your control. Look up to see where is the best place to pass it. On selection of your pass, maintain a strong body position. Swing your kicking foot through and strike the ball with the inside of your foot. Aim to hit the middle of the ball to ensure it stays close to the ground. Keep looking at your target. Follow your kicking leg through towards the intended target. The speed of the kicking leg will direct how hard you kick the ball.	Block tackle The block tackle is an essential skill for winning the ball back in football. It is mainly used when confronting an opponent head on and it is important to complete it with good timing and technique to prevent injury or fouls. Close down your opponent quickly but do not rush uncontrolled at them. Try to reduce any space around you and monitor for passing options. Stay on the balls of your feet, arms slightly out to jockey your opponent. Keep your eye on the ball and wait for a clear view of the ball. When you can see most of the ball, transfer your weight from your back to front foot and move the inside of your foot towards the ball. Maintain a strong body position.
Long pass A long pass is an attacking skill that allows players to switch the direction of the attack very quickly to create space, find a teammate or to catch out the opposition. Move parallel to the ball and place your non-kicking foot to the side of the ball. Keep your eye on the ball until you have it under your control. Look up to see where is the best place to pass the ball. On selection of your pass, maintain a strong body position. Explosively bring your kicking foot through and strike the ball with laces of your football boot. Aim to hit the middle of the ball to ensure it stays close to the ground or the lower half of the ball if you want to lift it over opposition players. Keep looking at your target. Follow your kicking leg through towards the intended target and your body over the ball.	Throw-in The throw-in is the legal way to restart the game if the ball has gone out of play from either of the side-lines. Hold the ball with both hands and ensure that the thumbs are behind the ball and fingers are spread. Hold the ball behind the head with relaxed arms and elbows bent. Keep your feet shoulder-width apart. Face your target. Lean back with both feet in contact with the ground. Slightly bend your knees and arch your head, neck, shoulders and trunk. When ready, propel yourself forward and release the ball just as it passes your head. Once the ball is released, bring your strongest leg forward and out in front of you for halance.
Control Good control of the football is an essential skill to maintain possession of the ball from the opposition and, if done accurately, gives the player more time to make the correct next decision. Keep your eye on the ball at all times. On contact with the ball, withdraw the foot slightly to take the momentum out of the ball (this is known as "cushioning"). Aim to contact the middle of the ball to ensure that it stays close to the ground and does not bounce up. Once under control, move the ball out of your feet to allow the next decision to be made.	Heading The header can be an attacking or defensive skill and is used to try and win the ball when it is in the air. Keep your eyes on the ball. Use your forehead to make contact with the bottom of the ball for a defensive header or the top of the ball for an attacking header. For a defensive header it is importing to get good height and distance but for an attacking header you need power and accuracy. You can also use flick headers to pass to a team mate.

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Subject Knowledge Organiser Gymnastics - Key Components of Fitness, Key Terms & Chronology

Key Components of Fitness for Gymnasts

A gymnast requires **flexibility** at the joints to allow for a larger range of motion around a joint.

A gymnast requires muscular strength to be able to balance on certain body parts. This is exerting their body against a given force.

A gymnast requires **power** in their arms and legs, which is speed x strength.

A gymnast requires **agility** to change direction at speed.

A gymnast requires muscular endurance to keep using the same muscle groups over and over again when performing a skill such as a forward roll.

A gymnast requires a certain levels of **speed** as they slow down their speed and increase their speed depending on the sequence they are performing.

Gymnastics Key Terms

Apparatus The equipment used in gymnastics.

Balance Position A static position, holding a distinct shape.

Dismount To leave an apparatus at the end of a routine.

Equilateral Triangle A triangle in which all three sides have equal length.

Jeté A move where the gymnast springs from one foot to the other.

Pike Body position where the body is bent forward 90 degrees at the waist with the legs kept straight.

Pivot A turn on the ball of the foot.

Plié Feet angled at 90 degrees.

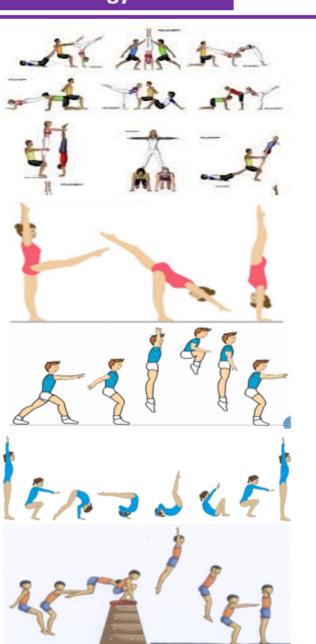
Routine A combination of moves and sequences performed on one apparatus.

Spotting Spotting a landing before take off.

Supporting When a second person assists the gymnast through a move and prepares to cushion them to avoid injury in the event of a fall

Tuck A position where the knees are bent into the chest, with the body folded at the waist.

Walkovers A move where a gymnast transfers from a standing position to a handstand to a standing position.



Subject Knowledge Organiser Gymnastics – Travelling, Jump, Roll, Weight on Hands, Balance & Vault

Travelling

Travelling in floor gymnastics is being able to move around the mat using different movements such as rolls, steps, turns, jumps, cartwheels, walkovers, handsprings, and being as creative as possible.

Standing Upward Jump

Bending your legs slightly, jump up while raising your arms forwards and upwards above your head. Keep your arms slightly in front of your body. As you land, it is important to keep your arms raised above your head, and place your feet slightly apart in the 'plie' position at an angle of 45 degrees, with your knees bent. As you make contact with the floor continue to bend the knees to absorb the downward force of landing. Bring your arms down sideways to stabilise the landing, without taking a step.

Forward Roll

From standing, crouch down. Place your hands on the floor in front of you, shoulder-width apart with your fingers facing forwards, while simultaneously placing your chin on your chest. This will ensure your hips of raised high enough and your spine is rounded so you can roll on to your back. Bend your arms as you place your neck on the floor, slightly extending the legs and pushing on the floor with your feet until the roll commences and you roll on to your back. Try to keep your legs straight as you commence the roll forwards. In the last part of the roll, bend your legs tightly so that your heels are close to your bottom. At the point where your feet contact the floor, stretch forwards with your arms so that your head and chest move over your feet. Once your body weight is in a position of balance you will be able to stand.

Cartwheel

Raise your hands above your head and place your leading leg forward. Reach forward to place the first hand (the hand on the same side as the leading leg) on the floor by bending your front leg and bending at the waist. When the <u>first hand</u> contacts the floor, straighten your front leg while kicking upward with your back leg over your head. Continue the movement by rocking over from your first to your second hand (which is still extended above your head). To do this, push strongly against the floor with your <u>first hand</u>, keeping your arms stretched up over your head. As your body rocks over your second hand, bring your second leg down to the ground and place it close to your second hand.

Headstand

Crouch down and place your hands and forehand on the floor to form and equilateral triangle. Your head should be approximately 30cm in from of your hands and your arms bent at an angle of 90 degrees. Extend your legs so that your pointed toes are resting on the floor. By pressing with your hands, slowly move your bottom over your forehead into a balanced position. Maintain the equilibrium by continually pressing with your hands. By exerting more pressure you will reach a point at which you can lift your feet from the floor. Continue to raise your legs above your head by pressing constantly against the floor with your hands. Make sure that your back is kept straight at all times by tightening your bottom and stomach muscles.

Headspring

To obtain the necessary height and rotation, a fast but controlled approached run is required. On take-off, drive your arms upwards and extend the body. Think of the lower body rotating over the upper body. You must still be moving upwards at the point when your hands strike the vault. In the strike phase, the angle of the body and the vault should be between 60 and 80 degrees to the vertical. Your hands should leave the box just before your body reaches the vertical. To achieve this the strike phase must be short and extremely powerful. During post-flight, keep the body as straight as possible. Just before landing, bend the knees.

Always remember: You need to make sure you show aesthetic appreciation when performing making sure arms and legs are kept as straight as possible where possible and your moves are controlled, smooth and balanced.

<u>Progress Vocabulary:</u> <u>Identify, Define, describe, explain, compare and contrast, sporting links, analyse, evaluate</u>

Subject Knowledge Organiser Handball – Laws, Player Positions & Pitch Dimensions

Players roles in Handball

Goal Keeper – The goalkeeper defends the goal with ever part of the body. They are the only player who can touch the ball with their feet. The goalkeeper can leave the 6 yard/metre? box if they do not have contact with the ball.

Left/Right Wingers – These are the fastest players on the court and patrol the sides of the court. They counter the opposition wingers in attack in order to create openings for their team mates. They can also shoot from tighter angles.

Left/Right Backs – These are the largest players on the court. When attacking they are responsible for driving at the defence and long range shooting. However, when defending they are used to black opposition shots.

Pivot - The pivot is the creative force in attack. They are expected to stand among the defenders on the 6m line to create space for their team mates or themselves to shoot. When defending, they either play right or left inside defender. Their roles are to ensure there are no spaces in the centre of the defence and that the opposition centre and pivot cannot create chances.

Centre Back – The centre back is a creative handball player also known as the 'playmaker'. They are responsible for setting up the play tactics. When defending they either play right or left inside defender. Their roles are to ensure there are no spaces in the centre of the defence and that the opposition centre and pivot cannot create chances

Rules of Handball

Attackers

Can: Take three steps with the ball then must pass of shoot
Can't: Dribble with the ball
Must: Shoot within 30 seconds. Only use their hands to play the ball.

Defenders

Can: regain possession of the ball by intercepting a pass or blocking a shot Cant: Snatch the ball from an attacker's hands.

Goalkeepers

Can: Block the ball with any part of their body in the goal area. Leave the goal area and join the attack.

Can't: Leave the goal area in possession of the ball

Fouls

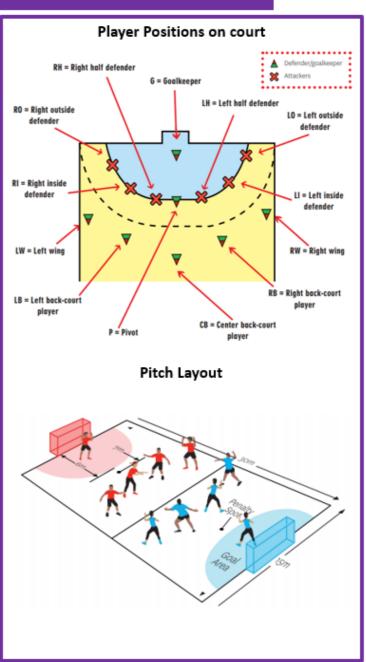
Any foul will lead to a free pass for the opposition team. The offending team must retreat three meters at a free pass.

Penalty

A penalty is a free throw from one meter outside the goal area. All players apart from the goalkeeper must be behind the penalty taker.

It is awarded if:

- · A defender enters the goal area
- · A foul prevents a goal scoring opportunity



Subject Knowledge Organiser Handball – Dribbling, shooting, catching, throwing

Dribbling

- 1. Touch the ball with your fingertips, not your palm
- 2. Bend your knees and get in a low stance
- 3. Push down firmly onto the ball and release
- 4. Use your wrist to control the bounce of the ball and power within the bounce
- 5. Keep your head up and look for <u>team mates</u>, space and opposition players
- 6. Move on the balls of your feet Use your agility, dribbling skills and speed to get past defenders.

Throwing

- 1. Weight always on front foot
- 2. The ball is gripped in your fingers and thumb, never your palm
- 3. The arm is raised, with the throwing elbow above the shoulder
- 4. Throw forward your arm and release the ball
- 5. Remember to aim at your partner's W

Always Remember: Defenders are not allowed to step into the goal area as this will result in a penalty shot to the opposition team.

Shooting

- 1. Receive the ball on the move 2.
- 2. Attack open space using your three steps
- 3. Raise the throwing arm backwards, the ball should be above your head and elbow above your shoulder
- 4. Transfer your weight onto your front foot
- 5. Aim at your target, and follow through your throwing arm and release the ball.

Jump Shot

- Follow the first three steps from the technique above
- 2. When attacking the open space, jump past the 6M line through the space into the
- 3. Before landing throw forward the throwing arm and release ball

Catching

- 1. Create a W with your hands
- 2. Fingers spread wide and elbows bent
- 3. Weight on the front foot and knees slightly bent

Key words: passing, dribbling, high catch, low catch, passing on the move, shooting, jump shot, goal area, penalty line, <u>half way</u> line, catching, throwing, three steps.

Progress Vocabulary: Identify, Define, describe, explain, compare and contrast, sporting links, analyse, evaluate

Subject Knowledge Organiser Netball – Rules, Officials, Scoring, Player Positions & Court Dimensions

Rules

- ☐ Players are not allowed to travel with the ball.
- ☐ A team can have up to 12 players but only seven are allowed to play on court.
- Defending players are unable to snatch or hit the ball out of another player's hands.
- A defending player is only allowed to stand beside the player with the ball until it has left their hands.
- ☐ A defending player must stand three feet away from the person with the ball.
- ☐ An attacking player is unable to hold the ball for more than three seconds.
- ☐ Players must remain within their designated zones.
- ☐ The team retaining possession after the ball goes out of play have three seconds at the side-line to get the ball back into play.

Officials

During a competitive game of netball there are two referees and up to two scorekeepers and timekeepers officiating.

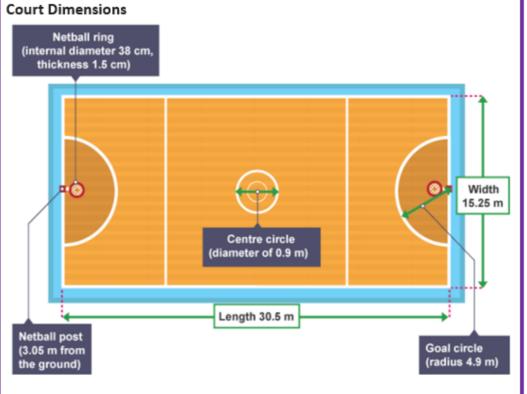
Scoring

In a game of netball there are two clear ways to score points:

1.In open play, if a shot is successfully scored from inside the goal circle, the team gains one point.

2.If the team is awarded a technical foul then they will receive a free shot at the net. A successful shot will be awarded with one point.





Subject Knowledge Organiser Netball – Bounce Pass, Chest Pass, Shoulder Pass & Pivoting

Bounce Pass

A bounce pass is a short pass that enables the player to find a teammate in a crowded area. The height of the ball makes it difficult for the opposition to reach and intercept.

Stage one

Feet shoulder-width apart in opposition, with knees bent. Place hands each side and slightly behind the ball, with the fingers comfortably spread. Hold the ball at waist level, with elbows tucked in.

Stage two

Step in the direction of the pass, through extending your legs, back and arms. The wrist and fingers should be forced through the ball releasing it off the first and second fingers of both hands. Follow through with the arms fully extended, fingers pointing at the target and thumbs pointing to the floor.

Chest Pass

A chest pass is a very fast and flat pass which enables a team to move quickly up a court in a precise and accurate fashion.

Stage one

Stand with feet shoulder width apart and on the balls of your feet, with back straight and knees slightly bent. Place hands on the sides of the ball with the thumbs directly behind the ball and fingers comfortably spread.

Stage two

The ball should be held in front of the chest with the elbows tucked in. Step in the direction of the pass, by extending their legs, back, and arms. Push the ball from the chest with both arms (not from one shoulder). Fingers are rotated behind the ball and the thumbs are turned down.

Stage three

The back of the hands face one another with the thumbs straight down. Make sure the ball is released off the first and second fingers of both hands. Follow through to finish up with the arms fully extended, fingers pointing at the target and thumbs pointing to the floor.

Shoulder Pass

A shoulder pass is a very dynamic, fast and long pass which enables a team to switch positions on court very quickly to either find a player in space or break defensive screens.

Stage one

Player's feet should be shoulder width apart in opposition. Opposite foot forward to throwing arm. Stand on balls of feet with toes pointing toward target, and knees slightly bent. Hold the ball at head height, slightly behind your head. Elbow should be at a 90° angle. Fingers spread behind the ball.

Stage two

Step in the direction of the pass by transferring your body weight from back foot to front foot. Pull the arm through with the elbow leading. To follow through, fully extend your arm and wrist. Point your fingers in the same direction as the pass, with palms facing

Pivoting

The pivoting action is a swivel movement that allows the player to move on a fixed axis to either pass or shoot.

Stage one

Run towards the ball and jump by extending the legs and ankles. Keep your eyes firmly fixed on the ball. Bring your hands out in front of your body at chest height with fingers spread open and pointing up.

Stage two

In the air catch the ball with thumbs an inch or two apart making a 'W' shape. Land on the ball of one foot on the ground. Flex your knee and ankle as your foot hits the floor.

Stage three

Stand with knees slightly bent and your feet shoulder width apart. Bring the ball into your body to protect it. Pivot by rotating yourself on the ball of your landing foot. Keep your upper body straight and head up. Make sure the hip of your pivoting leg is pointing in the direction you are aiming to pass the ball in. You can move or step with the other foot any number of times. You are not allowed to lift the foot you are pivoting on before you release the ball.

Always remember: When you land after catching the ball you must stick one foot that cannot move, your other foot is allowed to move/pivot.

Progress Vocabulary: Identify, Define, describe, explain, compare and contrast, sporting links, analyse, evaluate

Subject Knowledge Organiser - Dance

Keywords

<u>Canon-</u> This is where a group of performers repeats the same action one after another. A good example of this is the Mexican wave.

Choreography- Being able to create a dance or set of dance moves.

Control- The power to direct your body and body parts to master dance moves.

Co-ordination- Being able to move different body parts at the same time.

Dynamics-Being able to change the way your body moves-fast, slow, jerky, smooth etc.

<u>Expression</u>-Being able to show a story or a feeling through the medium of dance, also, being able to use your face to show the meaning of the dance.

Extension- To be able to stretch parts of the body to their upper limits, usually your arms, legs and fingers.

<u>Flexibility</u>- The ability of your joints to move through a full range of motion. Having flexibility in your muscles allows for more movement around a joint.

Isolation- Moving one body part on its own whilst the rest of the body is still.

<u>Mirroring-</u> This is where a pair or group of people complete the same movement but the opposite side of the body- as if they were looking in a mirror.

Dual Coding







Styles of Dance

<u>Ballet-</u> This dance style is over 500 years old and it is all about telling a story through dance and music. A famous ballet move is going onto pointe toes, this is where the shoes allow dancers to go onto the very tip of their toes which creates a sense of light and airiness.

<u>Street/Hip-hop-</u> This is a very quick style of dance which requires music with a heavy beat, dancers move around quickly creating moves on the floor and tricks such as head spins and flips. This style has derived from a variety of other dance styles yet only became popular in the early 90's.

<u>Modern-</u> This is dance that follows no rules and is focused on expressing <u>inner feelings</u> through music and movement. This style of dance was created in a rebellion against classical ballet due to the limitations. Modern dance became famous in the 1900's. Modern dancers usually dance barefooted and wear costumes' that reveal a story.

<u>Cultural</u>- Cultural dances are those that originate from a certain country, culture or religion and these are very famous within that culture. For example, Irish dancing originates from Ireland, Bollywood originates from India and Rock n Roll originates from America.

<u>Progress Vocabulary: Identify, Define, describe, explain, compare and contrast, sporting links, analyse, evaluate</u>

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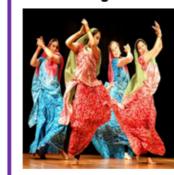
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The British Values

Key Vocabulary	
Laws	Rules which are set by the government that every single person must follow.
Election	The event at which people vote to choose the government.
Respect	Giving consideration to the feelings, wishes, needs or abilities of another person.
Racism	Prejudice or discrimination based on someone's skin colour or place of origin.
Sexism	Prejudice or discrimination based on someone's gender or biological sex.
Prejudice	Making judgements about someone based on their gender, race, sexual orientation or religion.
Discrimination	Mistreatment of someone based on their gender, race, sexual orientation or religion.
Protest	A public demonstration of dissasitisafaction with the rules.
Liberty	Freedom, the right to make decisions about one's own life.

The British Values and Some Other Rights		
Democracy	The idea that the people should be able to collectively choose their leaders.	
The Rule of Law	The idea that all people should follow the law and be treated equally by the law.	
Individual Liberty	The idea that people should be free to choose their own path in life.	
Mutual Respect and Tolerance	The idea that no one should be mistreated based on their race, gender, religion, disability or any other difference.	
Freedom of Speech	The idea that people should be free to express themselves and their views without fear of punishment.	
The Right to Protest unfair Treatment	Within certain rules, UK citizens are legally allowed to protest against treatment or rules that they deem unfair.	
Human Rights	The basic rights which are considered to be common to all people rather than having to be earned.	

The Big Idea

In many countries the rights and freedoms of the people are not guaranteed and protected by law. We are very lucky in Britain to be living in a country which protects us in this way and allows us to live our lives as we choose, as long as we don't have a negative affect on others. It has been a long journey through history to gain these rights and freedoms. Democracy, for example, has developed over more than 800 years, beginning with King John being forced by his barons to grant them some basic rights in a document which we now call Magna Carta, signed in the year 1215. Over this period, there have been many people how have fought for the rights of the British people, brave campaigners such as Annie Besant and William Wilberforce, who both worked hard to make sure that eventually all British people would be free and have a say in how the country is governed.

Without these rights and freedoms there would be nothing to stop us being put on trial or in prison for voicing an unpopular opinion, and nothing to stop a dictator such as Adolf Hitler or Josef Stalin taking over the <u>government</u>, and making laws which are cruel and ruin people's lives. These rights and freedoms essentially give us the chance to lead a happy life. They don't guarantee a happy life, they just give us the opportunity, as there are many more ingredients to leading a happy life and these will be different for each person. However they give us the opportunity to have an education, to learn all that we can about the world and try to find our place in it, and they give us the freedom to campaign for change in our society, where we see injustice such as racism or gender discrimination. These rights and freedoms give us the opportunity to chose our own path and attempt to follow it.

Activity - Research the five key British Values of democracy, the rule of law, individual liberty, mutual respect and freedom of speech. Create a fact-file explaining how these rights and values are protected in Britain.

