Name:







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How to learn over time

Successful Learning Takes Place Over Time

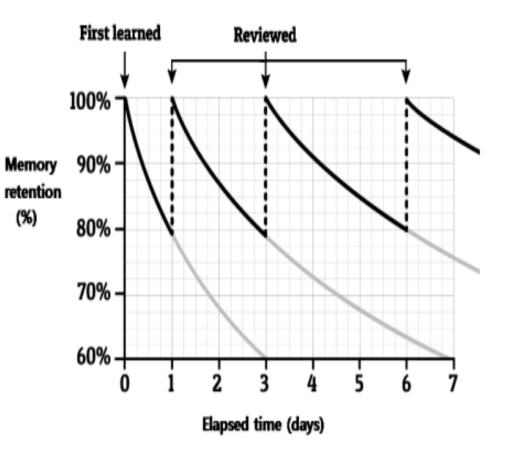


It's rare for anyone to be completely comfortable with something they learn for the first time. This could be a new piece of music, dance move, language or chemistry. We all have to practice. In most instances, the aim is to be at your optimum on the day it matters, e.g. the performance, race or exam. Everything leading up to this point is part of the process of improving. It's about the long-term rather than the short-term, which also means there are no quick fixes. During this period, it's okay to make mistakes; it's okay to feel frustrated. What matters is what you do about it.

Space out your learning on a subject

-

Spacing out your learning over time is far more effective than last-minute cramming. This is based on research into how we forget and how we remember. The speed at which we forget something will depend on many factors such as the difficulty of the material, how meaningful it was to us, how we learned it and how frequently we relearn or remember it. The last factor tells us that when we learn something for the first time, we need to review it quickly afterwards. The more times we force ourselves to remember something, the longer the gap between reviews, which the diagram below illustrates nicely. The Leitner system and Cornell Notes mentioned earlier provides a wonderful way of achieving this, but the principle applies to all of the learning strategies mentioned in this booklet.



Revision Strategies

List It

This is a simple free recall task that is very versatile. It can feel challenging, but this is a good thing, and it provides clear feedback on what you do and don't know. Choose a topic, set yourself a time limit and...

- List as many keywords as you can
- List as many facts as you can
- List as many key events/quotes/individuals as you can
- List as many causes of X as you can
- List as many consequences of Y as you can

Flashcards



Flashcards have the potential to be a powerful learning aid. However, how successful this is will depend on the thought you put into making them in the first place and then how they're used. It's very important to remember that they're for testing, not summarising.

Mapping



Mapping is a brilliant way of organising and learning information, demonstrated on various pages in this booklet. It helps you break down complex information, memorise it, and see the connections between different ideas.

Self-testing



Research has shown that every time you bring a memory to mind, you strengthen it. And the more challenging you make this retrieval, the greater the benefit. Self-testing improves the recall of information, transfer of knowledge and making inferences between information. Equally, there are many indirect effects, such as a greater appreciation of what you do and don't know, which helps you plan your next steps.

Flashcards



Flashcards are small sheets of paper or card with matching pieces of information on either side. They are a useful tool for learning facts and allow you to quickly check whether you have remembered something correctly.

When making and using flashcards:

Do:

- ...make flashcards quickly.
- ✓ …put a single piece of information of each flashcard.
- ...sort your flashcards according to your confidence with them (see below).
- …test yourself on the flashcards from memory.

Don't:

Х

Х

- ...spend more time making flashcards than actually using them.
- ...put lots of information onto each flashcard.
- X ...revise the flashcards in the same order every time that you use them.X ...only read through flashcards.

1861	groynes	osmosis	Where is the pharmacy?
Pasteur published his paper about germ theory.	A low wall on the coastline which slows longshore drift	Net movement of water from a high concentration to low concentration a cross a partially permeable membrane	Où est la pharmacie?

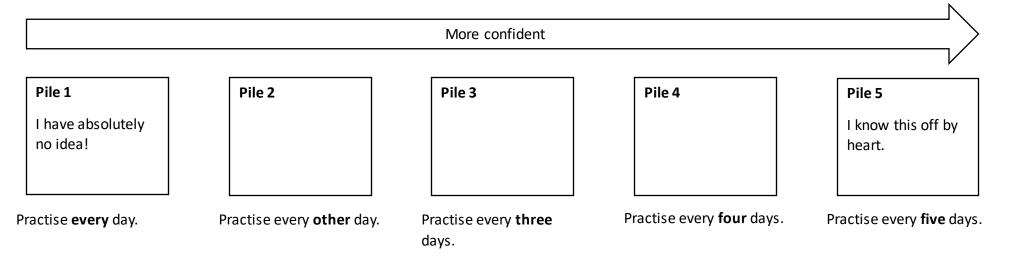
How to make flashcards:

- You can by a set of flashcards or use a free website such as Quizlet.
- Find the information you want to put onto flashcards using your existing revision resources (e.g. a knowledge organiser).
- •Fold a piece of A4 paper into 10.
- •Write the questions on the top half of the paper.
- •Write the answers on the bottom half of the paper.
- •Cut the paper along the dotted lines shown here.
- •Fold the strips of paper so that the writing is on either side.

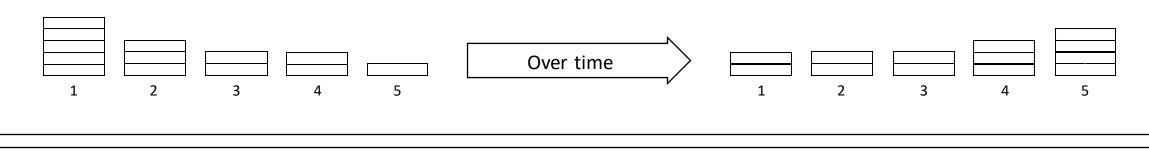
Definition 1	Definition 2	Definition 3	Definition 4	Definition 5
Answer 1	Answer 2	Answer 3	Answer 4	Answer 5

How to use flashcards:

- 1. Test yourself using the flashcards.
- 2. As you test yourself, sort the flashcards into up to five piles according to how confident you are with the content.
- 3. Put the piles into numbered envelopes (1-5).
- 4. Test yourself on the different piles on different days (see below):



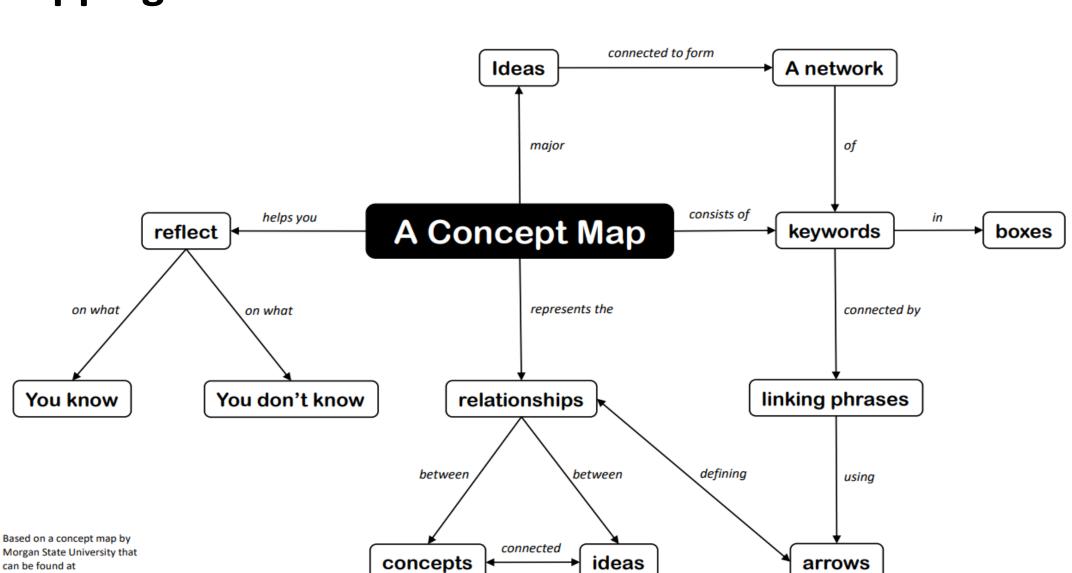
5. As you test yourself on the different piles, move the cards into different piles as you become more confident.



Useful resources:

www.quizlet.com – This free website allows you to quickly create flashcards which you can print, use on a computer, or use on your phone.

Mapping



can be found at https://bit.ly/35VLQrw

ENGLISH Year 8 Unit 1: Power and		
Corruption K BROADOAK	Core text: Animal Farm	Literary and Linguistic terminology:
Corruption BROADOAK ACADEMY	by George Orwell	Allegory – a story within a story.
Key vocabulary:		Fable - a short story that has morals or teaches you
Propaganda - information, especially of a	'Animal Farm' context:	a lesson.
misleading nature, used to promote a political	Democracy – In a democracy	Rhetoric – A form of persuasion.
cause or point of view.	(form of government), people	Hyperbole - exaggeration.
Corruption – dishonest behaviour or conduct by	have a say in how things are run.	Dystopia – an imagined world where there is
those in power.		injustice and great suffering.
Tyranny - cruel and oppressive rule.	Totalitarianism – A system of	Utopia – an imagined world that is ideal and
Rebellion - an act of armed resistance to an	government that is run by a	perfect.
established government or leader.	dictator and requires total obedience by the people.	Symbolism – when an image stands for or
Resistance - the refusal to accept or comply with		represents something else.
something.	Russian Revolution - The Russian Revolution took	Statement – a definite or clear expression of
Manipulation – behaviour used to influence or	place in 1917 when the	something.
control others.	peasants and working class	Question – A sentence worded to get information.
Oppression – prolonged cruel or unjust	people of Russia revolted	Command – an order or demand.
treatment of a certain group of people.	against the government of Tsar Nicholas II.	Exclamation - a sudden cry or remark expressing
Hierarchy - a system of ranking within society.		surprise, strong emotion, or pain

ENGLISH Year 8 Unit 1: Power and Corruption



82.022			SWALL SPACE REMARKS IN CONTRACT PROVIDENCES		
Animal Farm and Oracy The Seven Commandments Oracy 1. Whatever goes upon two legs is an enemy. Oracy 2. Whatever goes upon four legs, or has wings, is friend. No animal shall wear clothes. 3. No animal shall wear clothes. Knowledge Organiser 4. No animal shall sleep in a bed. 5. No animal shall drink alcohol. 6. No animal shall kill any other animal. 7. All animals are equal.		atever goes upon two legs is an enemy. atever goes upon four legs, or has wings, is a ad. animal shall wear clothes. animal shall sleep in a bed. animal shall drink alcohol. animal shall kill any other animal.	'All animals	Key Quote s are equal, but some animals are more equal than others'	
		The characters	2 2		- George Orwell (the author) wrote the book as a way criticize the events of the Russian Revolution
Snowball	Snowball is one of the other leading pigs, who challenges Napoleon for	Napoleon	Napoleon is the pig who emerges as the leader of Animal Farm after the rebellion. Napoleon's character is based on Joseph		
	leadership of the farm after the rebellion. He represents Leon Trotsky. He is intelligent and passionate, yet he does not resort to the same levels of cunning and manipulation as Napoleon.		Stalin – the leader of the communist Soviet Union. Napoleon is cunning, treacherous, lazy and selfish. He uses Squealer (propaganda) and the dogs (military force) to exert power over others.	Karl Marx	Old Major represents Karl Marx. Karl Marx believed in the introduction of a system in which wealth was communal and labour was shared. He believed this would produce a fairer, more stable way of life. This formed the basis of communism.
Squealer	Squealer represents propaganda. He is a pig who is a gifted and persuasive speaker, and is used to spread positivity about Napoleon, and negativity about Napoleon's competition.	Boxer	Boxer is a cart-horse, who demonstrates incredible strength, work ethic, and loyalty. He represents those in the working classes who were hugely overworked. Boxer completes the most work on the farm, and is admired by others for his physical accomplishments and mental grit. His downfall is his slow	Trotsky	Trotsky helped form the Bolshevik communist party. Snowball represents Trotsky, a passionate component of Animalism (Communism) who is expelled by Napoleon (Stalin).
	He uses false statistics to suggest that the farm thrives under Napoleon, and twists the truth to ensure that the pigs retain political and social control.		Stalin	Napoleon follows a similar rise to power as Stalin, using fear and propaganda to control the masses, including show trials and executions.	
Mr Jones	Drunken owner of Animal Farm. Embodies the tyranny of man.	The dogs	Instruments of fear and control, educated by Napoleon.	Rasputin	He was a self-proclaimed mystic and religious figure who was influential with the royal family. He is represented by Moses in the novel.

Year 8 English



Key characters		Key themes	
Mr Jones Old Major	Drunken owner of Animal Farm. Embodies the tyranny of man. Wise, old pig. Inspires the rebellion with his rhetoric.	Leadership and Corruption Control over the	
Boxer	Devoted citizen and immensely strong. Innocent and naïve.	intellectually inferior	Context and Literary Tradition
Napoleon	Expels Snowball. Executes animals. Establishes himself as dictator. Controls with fear. Becomes Jones.	Lies and deceit Foolishness	An allegorical tale with direct links to the history of the Soviet Union in the early 20 th century.
Snowball	Devoted to animalism and the education of lesser animals. Hero at the battle of the cowshed.	and naivety Violence Pride and	The book charts the corruptions of Communist ideals of equality, where workers are promised equality and freedom and are eventually repressed and treated as bad, if not worse, as under the
Squealer	Mouthpiece of Napoleon. Uses propaganda to control the animals.	Ceremony	previous rule of the capitalist 'Tsar'. Old Major represents Karl Marx, putting forward the communist ideals which will free them from the tyranny of capitalism (represented by longs)
Clover Dogs and Sheep	Maternal, caring and loyal. Senses hypocrisy but cannot articulate it. Instruments of fear and control, educated by	Dreams, hopes and future plans	tyranny of capitalism (represented by Jones). Snowball represents Trotsky, a passionate component of Animalism (Communism) who is expelled by Napoleon (Stalin).
	Napoleon.		Napoleon follows a similar rise to power as Stalin, using fear and propaganda to control the masses, including show trials and executions.
			By the end of the novel, the ideals of communism have been so far abused and forgotten, that Napoleon meets and forms agreements with former oppressors. Orwell was a British journalist and author, who wrote two of the most famous political novels of the 20th century 'Animal Farm' and 'Nineteen Eighty-Four'. When Orwell saw a kid whipping a horse, he had an idea: "It struck me that if only such animals became aware of their strength we should have no power over them, and that men exploit animals in much the same way as the rich exploit the working class". This inspired him to write the novel.

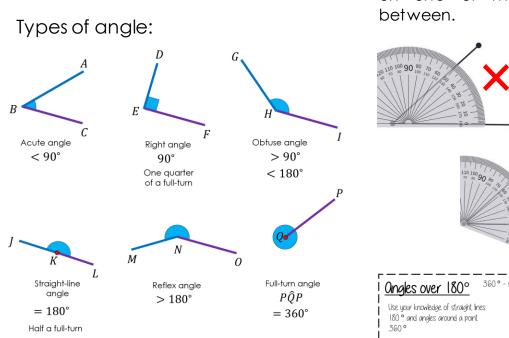


Key knowledge:

Angle is a measure of **turn**.

Angles are labelled using three letters.

AÂC

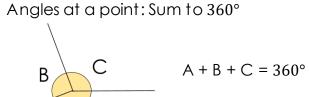


Protractor: The tool used to measure angles.

Measuring and drawing angles

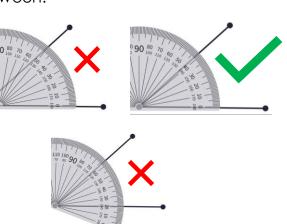
When using a protractor:

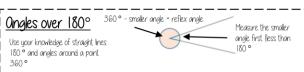
- The vertex of the angle must be in the centre of the protractor
- The zero line on the protractor must be on one of the lines the angle is between.



Angles on a straight line: Sum to 180°

A + B = 180°







Interpreting and comparing data

Data: Information collected on a subject to be analysed.

<u>Types of data:</u> **Qualitative:** Data on qualities, recorded as words.

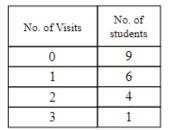
Quantitative: Data recorded as numerical values.

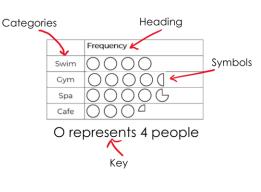
Discrete: Quantitative data that can only take certain values.

Continuous: Quantitative data that can take any value.

Frequency: Number of times a quality or value is observed in a data set

Pictogram: Data presentation using an image to represent frequency.



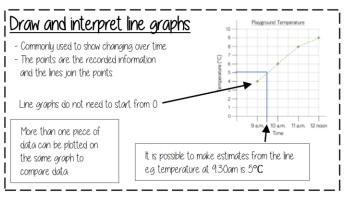


Bar chart: Data presentation using heights of bars to represent frequency.

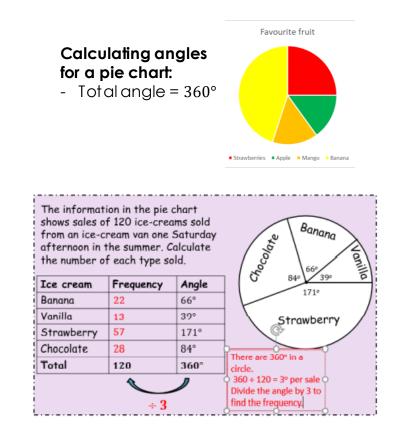
How people get to school



Line graph: Shows how a value changes over time. Points are joined with straight lines.

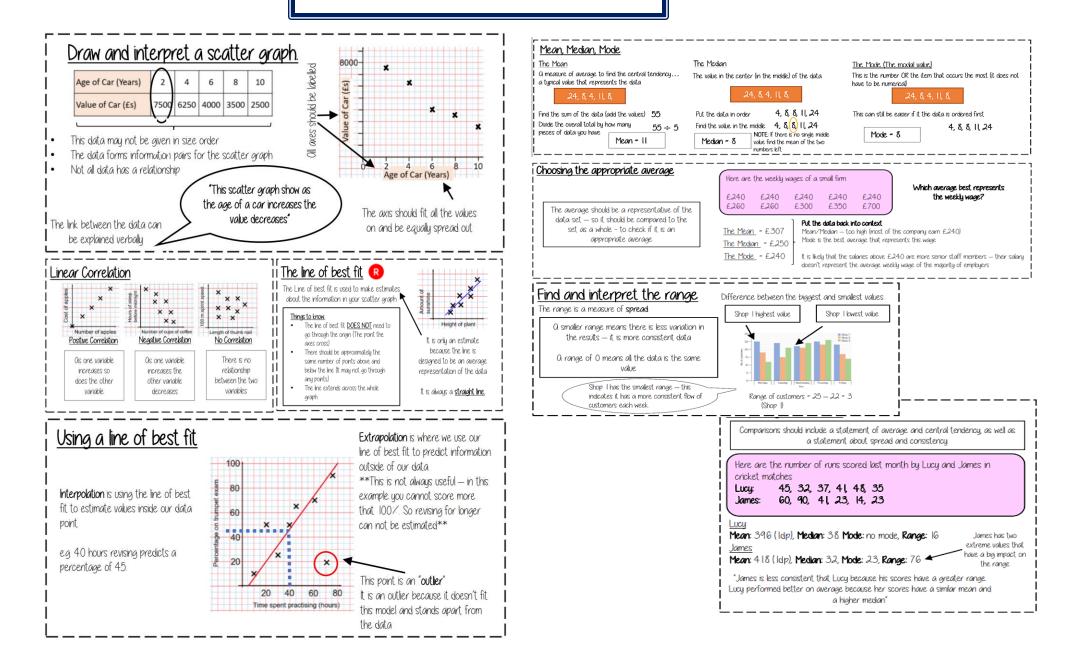


Pie Chart: Data presentation where frequencies are shown in proportion to the total frequency as fractions of a circle.





Scatter graphs and averages



1. Chemical Reactions Atoms are rearranged in a chemical reaction. The substances that:

- react together are called the reactants

- are formed in the reaction are called the products

The atoms in a compound are chemically joined together by strong **forces** called **bonds**. This is why the properties of a compound are different from the elements it contains. A **word equation** shows the names of each substance involved in a reaction, and must not include **chemical symbols**.

2. Chemical Equations

A **balanced** equation gives more information a bout a chemical reaction because it includes the **symbols** and **formulae** of the substances involved. There are two steps in writing a balanced equation: 1. replace the name of each substance with its symbol or formula 2. Use numbers to ensure the number of each element is equal on both sides.

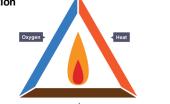
For example: Copper + Oxygen → Copper Oxide

 $Cu + O_2 \rightarrow Cu \text{ Omore oxygen needed on right)}$ $Cu + O_2 \rightarrow 2Cu O$ $@Ceta cop O_2 re cop C_2 Cu O$ Relanced

3. Combustion

Combustion is the scientific term for burning. There are 3 things that are needed for a fire: oxygen, fuel and heat. These things form the fire triangle. If you remove anyone of these the fire will not start

or go out. **Complete combustion** occurs when there is good supply of oxygen. The general equation is: Fuel + oxygen → carbon dioxide + water



4. Incomplete combustion

Incomplete combustion is another form of combustion which occurs where there is a lack of **oxygen**. Water vapour and carbon dioxide are still produced, but two other **products** are also produced:

carbon monoxide, CO, a colourless toxic gas and particles of carbon, which appear as soot and smoke, and which cause breathing problems.

The general **equation** is:

Fuel \rightarrow carbon monoxide + water + carbon (soot)

KS3 Science Chemical Reactions



5. Oxidation

Combustion is an example of a type of reaction called **oxidation**. In an oxidation reaction, a substance gains oxygen. Metals react with oxygen in the air to produce metal oxides. Metal oxides are **bases** they react with a cids and **neutralise** them. Some metal oxides dissolve in water to produce **alkaline** solutions. Non-metals react with oxygen in the air to produce non-metal oxides. Non-metal oxides are **acids**.

6. Thermal Decomposition

Some compounds break down when heated, forming two or more products from one reactant. This type of reaction is called **thermal decomposition**.

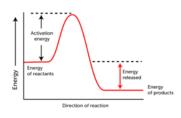
Many metal carbonates can take part in the rmal decomposition reactions. Metal carbonates undergo thermal decomposition to produce metal oxides and carbon dioxide.

Thermal decomposition is an example of an **endothermic** reaction, a reaction that gains energy from the surroundings.

7. Exothermic Reactions

An exothermic reaction is one where energy is released to the surroundings shown as a temperature increase of the surroundings. This means that the reactants produce both heat energy and products in the reaction. The energy

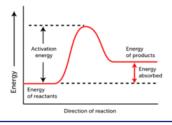
level diagram shows the lower energy in the products.



8. Endothermic Reactions

An **endothermic** reaction is one where energy is absorbed from the surroundings shown as a temperature decrease in the surroundings.

This means that the reactants combined with heat energy produce products in the reaction. The energy level diagram shows the higher energy in the products.



Endothermic Reaction

uel



lina 😽 +

1. Forces

A force is a **push** or a **pull** that changes the shape, speed or direction of an object. You cannot see forces but you can see the effects of them.



The unit of force is the Newton (N) named after Sir Isaac Newton. He came up with manytheories including those to do with gravity and the three laws of motion. We measure force using a piece of equipment called a Newton metre.

2. Types of Force

Forces can be divided into two types: contact and non-contact.

- 1. Contact forces for example friction, are caused when two objects are in contact.
- 2. Other forces for example gravity, are non contact forces. The two objects do not need to be in contact for the force to occur.

Examples of forces include push, pull, friction, air resistance, water resistance, thrust, upthrust, reaction, weight, magnetism, gravity, lift and tension.

3. Balanced Forces

When we talk about the total force acting on object we call this the resultant force. When the forces acting in opposite directions are the same magnitude (size) we say the forces are **balanced**.

- This means one of two things:
- 1. The object isstationary (not moving)
- 2. The object is moving at a constant speed

For example, the vertical resultant force acting on the duck is 5N-5N=0N



Submarine at constant Floatingduck speedanddepth



If the forces are unbalanced on an object

there are two things that could happen:

- 1. If the object is stationary then it will move in the direction of the Hotairballoonrising resultant force
- 2. If the object is moving, then the object will speed up or slow down in the direction of the resultant force



KS3 Science **Forces and Motion**



5. Speed, Distance and Time

How do you find the average speed of an object?

- 1) Measure the distance travelled
- 2) Measure the time taken to travel that distance

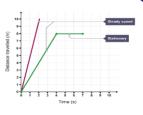
Average speed = distance / time

Worked example:

Q) A car travels 2 km in 100 s. Calculate its average speed. 2 km = 2000 m 2000 m / 100 s = 20 m/s



6. Distance Time Graphs In a distance-time graph, the gradient of the line is equal to the speed of the object. The greater the gradient (and the steeper the line) the faster the object is moving.



You can calculate the speed of an object by calculating the gradient of the line (distance travelled / time taken). The speed of the object shown by the green line is 8m/4s = 2m/s. Is the purple line travelling fasterorslower?

7. Reducing forces for the better Friction opposes the direction of motion, making it more difficult to move.



This can be helpful:

- Your shoes and the floor to stop you slipping
- Tyres and the road to prevent skidding
- Brakes and the wheel to slow you down

This can be unhelpful:

If you do not lubricate your bike chain using oils, friction between the chain and the axles make it difficult to pedal.

Like friction, air resistance and water resistance forces can also be reduced. This is known as streamlining.

8. Investigating Forces Scientific Question: Does wing length affect the time taken to land?

Independent variable: wing length (cm) Dependent variable: time taken to land (seconds) Control variable: height dropped from (cm) mass of helicopter (g)

Conclusion: The longer the wings, the greater the force of air resistance.



1. Water waves

If you throw a pebble into a pond, ripples spread out from where it went in. These ripples are waves travelling through the water. The waves move with a transverse motion. The undulations (up and down movement) are at 90° to the direction of travel.

For example, if you stand still in the sea, the water rises and falls as the waves move past you.

$\xrightarrow{}$

4. Loudspeakers

Sound waves are produced by all vibrating objects. Louds peakers work by converting electrical energy into kinetic energy. This moves the cone which creates the sound waves.

6. Microphones

Mobile phones and telephones contain microphones. These devices contain a diaphragm, which does a similar job to an ear drum. The vibrations in air make the diaphragm vibrate, and these vibrations are changed to electrical impulses. In the lab, the electrical impulses can be sent to an oscilloscope, which represents them as a graph on a screen



2. Superposition

When two waves meet, they affect each other, this is called **superposition.**

If waves meet 'in step' they will add together, increasing the **amplitude.**

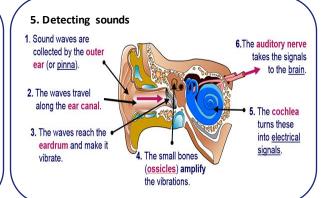
If waves meet 'out of step' they subtract, cancelling each other out. KS3 Science Waves 1: Sound



3. Sound waves Sound waves are **longitudinal waves** - the vibrations

are in the same direction as the direction of travel.

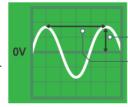
Sound travels fastest in a solid. Particles can pass energy on quickly because they are arranged in a regular pattern and are tightly packed



7. Oscilloscope traces

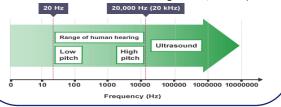
Amplitude is the height of the wave from its resting position – the greater the amplitude, the louder the sound

Wavelength is the distance between the crests (tops) of two waves Frequency is the number of waves persecond – the higher the frequency, the closer together the waves are and the higher the pitch



8. Human Hearing range

The frequency of sound waves is measured in hertz, which has the symbol Hz. The bigger the number, the greater the frequency and the higher the pitch of the sound. Human beings can generally hear sounds as low as 20 Hz and as high as 20,000 Hz (20



1. Sound and Light

2. Reflection

mirror:

mirror

the mirror

When light reaches a

mirror, it reflects off

the incident ray is the

light going towards the

the **reflected ray** is the

light coming away from

the surface of the

Light travels at 300,000,000 m/s, much faster than sound, which travels at 343 m/s. This is why you see lightning before you hear it.

	Light waves	Sound waves
Type of wave	Transverse	Longitudinal
Can they travel through matter (solids, liquids and gases)?	Yes (iftransparent or translucent)	Yes
Can they travel through a vacuum?	Yes	No
How are they detected?	Eyes, cameras	Ears, microphones
Can they be reflected?	Yes	Yes
Can they be refracted?	Yes	Yes

i = r

3. The law of reflection

The **law of reflection** states that the angle of incidence equals the angle of reflection, i = r. For example, if the angle of reflection is 30° then the angle of incidence is 30°.

If a light ray travelling along the normal hits a mirror, it is reflected straight back the way it came. The reflection of light from a flat surface such as a mirror is called **specular reflection** – light meeting the surface in one direction is all reflected in one direction.

KS3 Science Waves 2: Light



4. Scattering

ident ray

Angle of incidence

Angle of reflection

eflected ray

Plane mirror

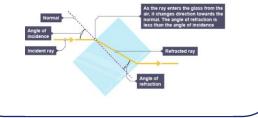
Normal

If light meets a rough surface, each ray obeys the law of reflection. However, the different parts of the rough surface point in different directions, so the light is not all reflected in one direction. Instead, the light is reflected in all directions. This is called **diffuse scattering**. It explains why you can see a clear image of yourself in a shiny flat mirror, but not in a dull rough

> Diffuse Reflection (rough surfaces)

5. Refraction

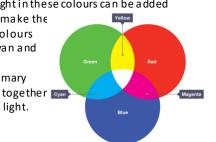
Light waves change speed when they pass across the boundary between two substances with a different **density**, such as air and glass. This causes them to change direction, an effect called **refraction**.



6. Coloured light

There are three primary colours in light: red, green and blue. Light in these colours can be added

together to make the secondary colours magenta, cyan and yellow. All three primary colours add together own make white light.



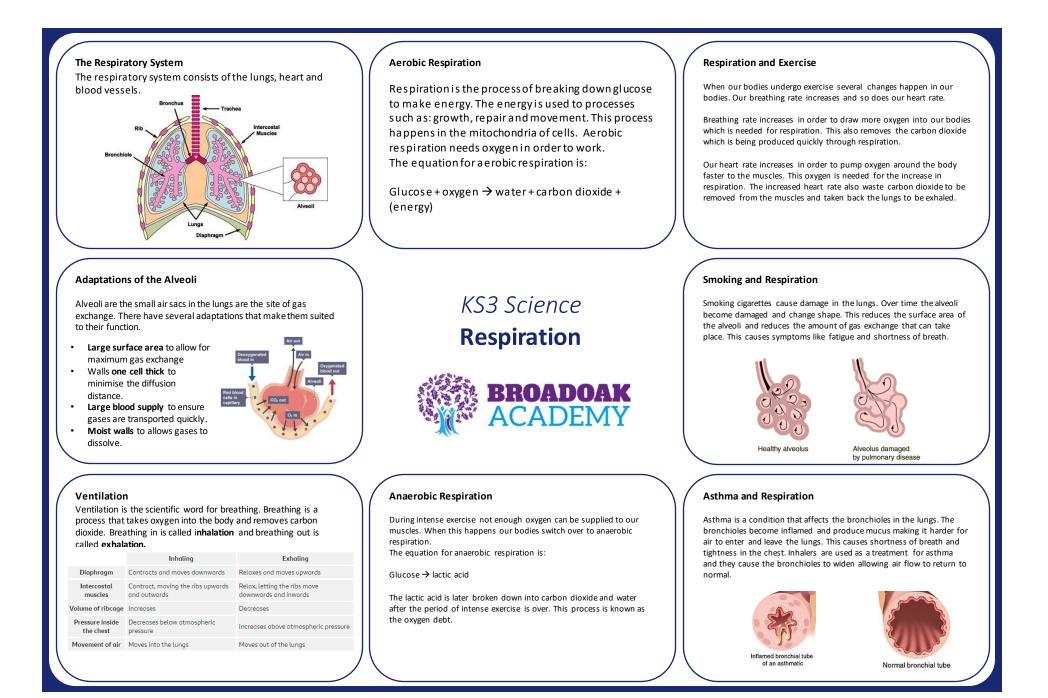
7. Seeing in colour Any coloured object reflects the colour that it is and absorbs the rest

Black objects absorb all colours

white light coming in

green surfac

White objects absorb no colours and reflect all the light

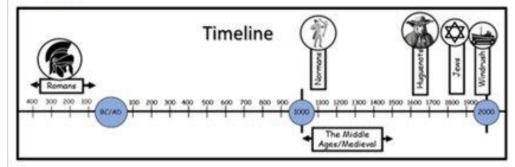




History at Broadoak: Migration



Migration: What factors have caused people to come to Britain? What have attitudes towards migrants been in Britain?



Reasons for migration

Who?	Why?
First people	Wandered across the land bridge which linked Britain
20,000BC.	to Europe.
Roman Empire, 43 – 410 AD	Conquer new land, extend the Empire to obtain more goods and power. They also wanted revenge for British support of Gaul.
Normans,	William of Normandy invaded declaring he had a claim
1066	to the English throne.
French Huguenots,	Persecuted in Catholic France. Many were skilled
1670 – 1710.	craftsmen who set up businesses in England.
Eastern European Jews,	Persecuted and fled to England. Many moved to the
1880s	East End of London.
Windrush generation late 1940s – 1960s.	After WWII, Britain encouraged immigration from Commonwealth countries. To a large extent this was to help rebuild the country as there was a shortage of labour at the time.

\mathbf{O}	Key Words
Migration	The movement of a person or people from one country, locality, place of residence, etc., to settle in another; an instance of this.
Aliens	The official name given to people from other counties in the Middle Ages.
Commonwealth	an international association consisting of the UK together with some states that were previously part of the British Empire.
Conquer	overcome and take control of (a place or people) by military force
Emigration	leaving one's own country to settle permanently in another; moving abroad.
Huguenot	French Protestants.
Racism	prejudice or discrimination directed against someone of a different race based on the belief that one's own race is superior.
Refugee	a displaced person who has been forced to cross national boundaries and who cannot return home safely.
Windrush	people who emigrated from the Caribbean to Britain on the British ship the Empire Windrush in 1948.

		Key reasons for migration
	Employment	Work
	Empire	When one country rules over other countries , e.g. British Empire
	Persecution	Hostility and ill-treatment, especially because of race or political or religious beliefs; oppression.













History at Broadoak: Migration

Impact: Migration has had on Great Britian

Attitudes migrants have faced

Romans

The Romans faced several rebellions. eg. Boudicca, some areas were never really conquered. Many tribes worked with them as shown by the Hallaton Helmet.

Normans

William created the Domesday Book and taxed people heavily, which they resented. Many Normans took over Anglo-Saxons jobs and people resented this.

Huguenots

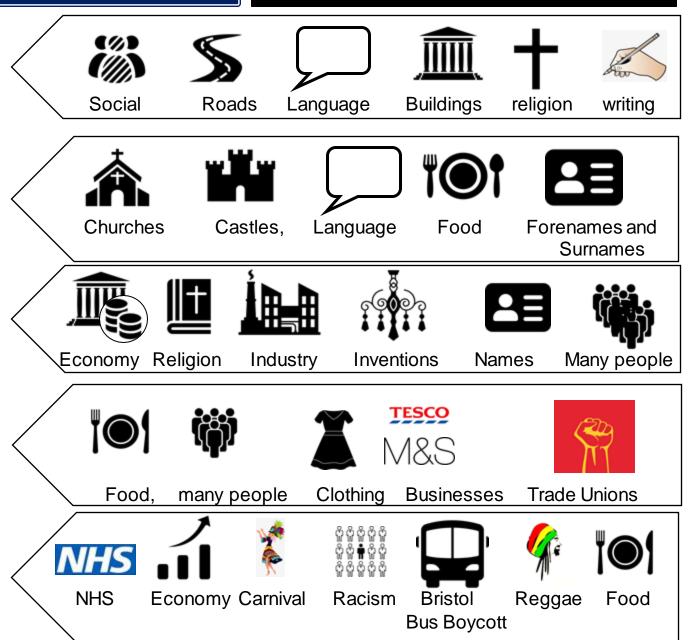
King Charles II gave them the right to become English citizens. Many were skilled and successful, some were supported by English communities. Others faced prejudice and were mocked for their clothing.

Jews

Areas such as London and Manchester developed large Jewish communities. Although there was some support, many Jewish people experienced Anti – Semitism.

Windrush Generation

Although they had been invited to fill a skills shortage, many experienced racism on arrival. Some struggled to find accommodation and many skilled workers worked in low paid, unskilled jobs.



Year 8 – term 1 - Geography Knowledge Organiser

map:



3. Development Indicators

icor BROADOAN	3. Developme	entindicators	
iser BROADOAK ACADEMY	Indicator	Meaning	Explanation
	Life Expectancy	The average number of	Tells us about the
2. Misconceptions		years a person is expected	healthcare and
A misconception is a commonly		to live	quality of life in a
held view that is incorrect.			country
There are many misconceptions	Literacy rate	The percentage of adults	Tells about education
		who can read and write	in a country
about Africa due to how it has	Birth rate	The number of births per	Tells us about the
been represented in the media		1000 of the population	healthcare and
E.g. "Africa is a county" Is a	Deathrate	The number of people	quality of life in a
misconception. It is actually a	Deathrate	dying per 1000 of the	country
continent with 54 countries. Can		population	
you think of more	Infant mortality	Number of children dying	Tells us about
misconceptions and correct	rate	before the age of 5	healthcare in a
them?			country
rica? AFRICA 1914	GNI (Gross	GNI is the total amount of	Tells us about the
	National	money earned by a	economic
FRENCH WEST APRICA ANGLO	Income)	nation's people and	development of a
within Screw Stars		businesses	country
BRITISH FRENCH FRENCH	Human	HDI – a figure between 0-1	Combines both social
	Development	that designates the	and economic
	Index	development of country	measures to give a

accounting for life

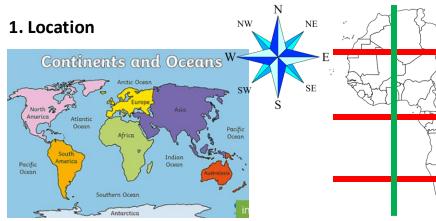
education and GNI

expectancy, levels of

more holistic view of

Quality of Life in a

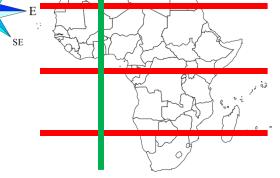
country.



Can you describe Africa's location in relation to other continents and oceans? E.g. Africa is to the south of Europe and to the east of the Atlantic Ocean

4. How does development vary in Africa?

Development varies in Africa HICS – South Africa, Algeria NEEs – Nigeria, Rwanda LICs – Sudan, Chad



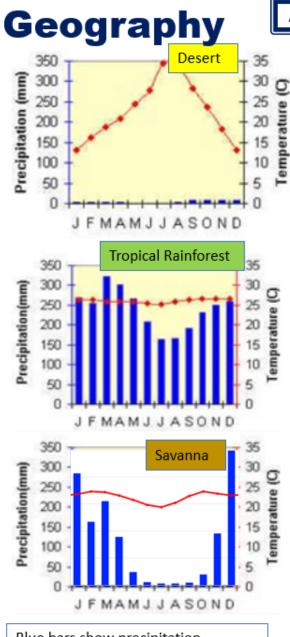
Label the lines of latitude and Longitude on the

The equator runs through the centre The Tropic of Cancer runs through the north The Tropic of Capricorn runs through the south The Prime Meridian runs through the west.

5. How has colonisation impacted development in Africa? The 'Scramble for Africa' happened between 1880 and 1914. European countries raced to **colonise** countries within Africa in order to exploit their natural resources. Most gained independence following WW2. However, Colonisation impacted development. This is because, following independence there was sometimes conflict and corruption, which prevented some countries developing.

	them?
	misconceptions and correct
	you think of more
	continent with 54 countries. Car
	misconception. It is actually a
ie	E.g. "Africa is a county" Is a
	been represented in the media
	about Africa due to how it has
	There are many misconceptions
	held view that is incorrect.

P	AFRICA 1914
FRENCH WEST A	PRICA ANGLOS GRIA SUDAN
BRITISH FRENCH SPANISH PORTUGUESE BELGE	BLIGIAN CONGO HART
GERMAN ITALIAN INDEPENDENT	LINEN OF SOLTH AFRICA



Biome

Climate graph

Hadley Cell

Equator

Evaporation

Condensation

Opportunities

Environmental

Multiplier effect

Economic

Ecotourism

Challenges

Social

Tourism

Blue bars show precipitation (rainfall).

Temperature is shown buy a red line.

A	Are Africa's landscapes more than just 'The Lion King'?				
	Key word	Definition			

and animals eg rainforest

about 30° north or south.

and the parallel of latitude 0

caused by condensation in the air

A problem that may be overcome

Factors to do with the natural world

conservation efforts and observe wildlife.

A chance for some good.

Factors to do with people

Factors to do with money

diagrams)

An area with similar physical characteristics, climate, plants

Climate graphs show average rainfall and temperatures

A large-scale atmospheric convection cell in which air rises

at the equator and sinks at medium latitudes, typically

A line drawn on the earth same distant from the poles,

The process of turning from liquid into vapour.

activities and infrastructure involved in this

dividing the earth into northern and southern hemispheres

The conversion of a vapour or gas to a liquid eg the cloud is

The visiting of place that is not your home for a leisure

Positive overall impact of economic change in a location

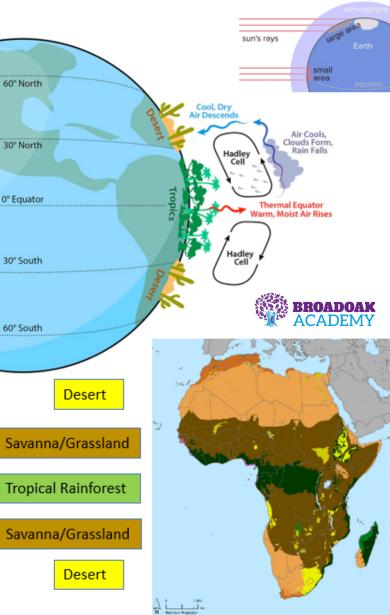
tourism directed towards unique environments, often

threatened, natural environments, intended to support

typically experienced in a particular location. (see

Sunlight hits the Earth most directly at the Equator.

The curve of the Earth means that sunlight is spread over a wider area the further you move from the Equator. Sunlight hits a smaller surface area at the Equator so heats up quickly compared to the poles.



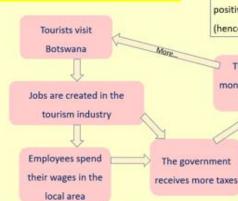
Geography





Wet season: Plants grow
quickly, trees grow new
leaves and grasses
become very tall

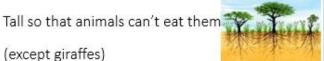
Key term: Multiplier Effect



Dry season: Grasses dry out, trees drop their leaves. Bush fires are common during this period.

> The multiplier effect is when one positive effect leads to many others (hence it 'multiplies')

The government can use this money to improve living conditions and infrastructure



Large underground roots to survive fires (nutrients)

Are Africa's landscapes more than just 'The Lion King'?

- Large tap root to reach water deep underground
- Thornes to deter animals

How have plants adapted?

(except giraffes)

Let out a chemical into their leaves to make them taste bad

How have animals adapted?

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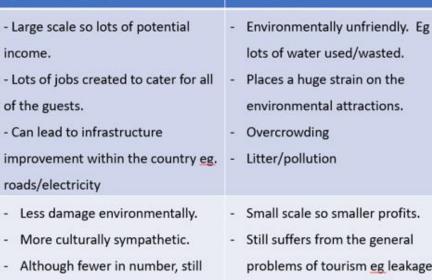
- Large ears to reduce heat
- Thick skin to protect from the sun
- Tusks are used for defending themselves and for digging for water
- They use mud to cool themselves and to get rid of bugs.

In order to be sustainable you must look after:

- People (social)
- Money (economic)

- The environment





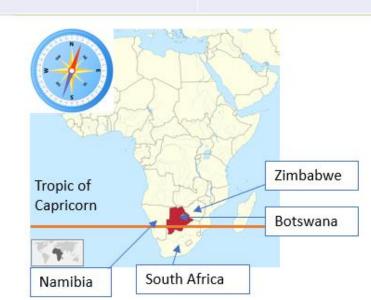
Aims to support local

creates jobs.

Opportunities (Pros)

communities more.

- Still suffers from the general problems of tourism eg leakage of profit out of Botswana.





Challenges (Cons)



USTAINABILIT

Na

Ecotor

1. The Present Tensenormalmentenormallygeneralmenteusuallya vecessometimesStep 1: Take the infinitive of the verb (AR/ER/IR)Step 2: Chop off the ending (AR/ER/IR)Step 3: Add the correct ending:			verb (AR/ER/IR)	la semana próxima el fin de semana pro mañana el año próximo	Y8 & 9 Spanish e (Near) Future Tense next week óximo next weekend tomorrow next year esent tense of the verb 'ir' (to go)	3. The Preterite (Past) Tensela semana pasadalast weekel semana pasadolast weekendayeryesterdayel año pasadolast yearRegular Verbs:Step 1: Take the infinitive of the verb (AR/ER/IR)		
Jiep J. Auu		t enung.			<u>ir: to go</u>	Step 2: Chop off the er	nding (AR/ER/	/IR)
Pronouns	AR verbs	ER verbs	s IR verbs	(γο) Voy (τύ) Vas	I go/am going You go/are going (s)	Step 3: Add the correc	t ending:	
Yo Tú	o as	o es	o es	(tu) vasYou go/are going (s.)(el/ella) VaHe/she/one goes/is going(nosotros) VamosWe go/are going(vosotros) VaisYou go/are going (p.)		Pronouns	AR verbs	ER/IR verbs
El/Ella	а	е	е			Yo (I) Tú (You s.)	e aste	iste
Nosotros	amos á is	emos é is	imos íc			El/Ella (He/She)	Ó	ió
Vosotros Ellos/Ellas	an	eis en	ís en	Stop 2: Add the pro			amos	imos istois
				Step 2: Add the presposition 'a' Step 3: Add an infinitive (the thing you're going to do).		Vosotros (You pl.) Ellos/Ellas (They)	asteis aron	isteis ieron
Super Five Irregular Verbs: There are some verbs that don't follow this pattern. The 4 most important irregular verbs are on this sheet (TENER, IR, SER, and HACER).		e.g. I'm going to play Voy a jugar i		6. <u>Awesome Spanish Things to Say</u> iNo puedo esperar! I can't wait for it! Por lo que sé As far as I know		or it!		
<u>S</u> e	<u>er – to be</u>		<u>Hacer – 1</u>	to do/make		Que yo sepa	As far as I kn	
(yo) Soy (tu) Eres (él/ella) Es (nosotros) So (vosotros) So (ellos/ellas) S	He/. omos We pis You	m 1 are (s.) /she/ is 2 are 1 are (p.) 2y are	(yo) Hago (tu) Haces (él/ella) Hace <i>He</i> (nosotros) Hacem (vosotros) Hacéis (ellos/ellas) Hacer	You do/make (p.)	(yo) TengoI have(tu) TienesYou have (s.)(él/ella) TieneHe/she/one has(nosotros) TenemosWe have(vosotros) TenéisYou have (p.)	el último / la última the last/lates Es mi (tipo de) cosa It's my (kind No es mi (tipo de) cosa It's not my (k Mientras estaba viendo while I am wo Mientras estaba escuchando / escucho la while I am listening Mientras estaba haciendo / hago los debe		of) thing ind of) thing tching TV música g/I listen to music

while I am doing / I do homework

NFO 2021

¿Te gusta? Do you like?				
OPINION	NOUN	JUSTIFICATION	INTENSIFIERS	ADJECTIVES
Prefiero	el pan (bread)	porque es	muy	sabroso / rico (tasty)
l prefer	el pescado (fish) el queso (cheese)	because it is	very	delicioso (delicious)
Me encanta(n)	🔄 la mantequilla (butter)	porque son	bastante	sano (healthy)
I love	☐ a leche (milk) ▲ el café (coffee)	because they are	quite	malsano (unhealthy)
Me gusta(n)	$\stackrel{3}{}$ el té (tea)		un poco	terrible (awful)
l like	a cola (Coke)		a bit	asqueroso (disgusting)
No me gusta(n)	 el azúcar (sugar) el jamón (ham) 		demasiado	
I don't like	el chocolate caliente		too	picante (spicy)
Odio	(hot chocolate)			dulce (sweet)
I hate	b la manzana (apple)			amargo (bitter)
En mi opinión	la carne (meat) la mermelada (jam)			salado (salty)
In my opinion	 la carne (meat) la mermelada (jam) el helado (ice-cream) 			grasiento (greasy)
	las judías verdes			
Pienso que I think that	(green beans)			bueno para la salud (good for your health)
	비용 verduras (vegetables)			
	Iss patatas fritas (chips)			malo para la salud
	las papas (crisps)			(bad for your health)
	las espinacas (spinach)			
	el huevo (egg)			ADJECTIVES AGREE WITH
	್ಧೌ el agua (wáter)			THE NOUN -o/-a/-os/-as

¿Cuándo comes?	When do you eat?
El desayuno	Breakfast
La comida	Lunch
La merienda	Snack
La cena	Evening meal/tea
Desayunar	To eat breakfast
Comer	To eat lunch
Merendar	To snack 🛛 🚺
Cenar	To eat dinner

EN EL MERCADO /	IN THE MARKET /			
SUPERMERCADO	SUPERMARKET			
¿ Te gustaría?	Would you like?			
Un paquete de	A packet of			
Un litro de	A litre of			
Un kilo de	A kilo of	<u>, 18</u>		
Un medio kilo de	Half a kilo of 🛛 😽			
Una botella de	A bottle of 🛛 🗧 🦰			
	۵ ۲	0		

Food and Drink SPANISH



EN EL RESTAURANTE	IN THE RESTAURANT
¿Qué quieres comer?	What do you want to eat?
De primer plato	For the starter
De segundo plato	For the main
De postre	For dessert
Quisiera	I would like
Para mí	For me
Para beber	To drink
Para comer	To eat
Una ración de	A portion of
Camarero/a	Waiter/waitress
¿Tienes?	Do you have?
La cuenta, por favor	The bill, please
La propina	The tip

¿Cuánto cuesta?	How much?
diez	10
veinte	20
veintiuno	21
treinta	30
treinta y uno	31
cuarenta	40
cincuenta	50
sesenta	60
setenta	70
ochenta	80
noventa	90
cien	100
dos cientos	200
quinientos	500
Euros	Euros
Libras	Pounds





1. The Present TenseNormalementnormallyD'habitudeusuallyQuelquefoissometimes		2. The (Near) Future TenseLa semaine prochainenext weekLe weekend prochainnext weekendDemaintomorrowL'année prochainenext year		3. The Preterite (Past) TenseLa semaine dernièrenext weekLe weekend derniernext weekendL'année dernièrenext yearPerfect Tense verbs with 'AVOIR':Step 1: Take the present tense of the verb avoirFor some verbs you need to use the verb être(MRS VANDERTRAMP)			
Step 1: Take the infinitive of the verb (ER/IR/RE) Step 2: Chop off the ending (ER/IR/RE) Step 3: Add the correct ending:							
Step 3: Add the correct ending:PronounsER verbsIR verbsRE verbsJeeissJuesissTuesissII/Elle/Oneit-NousonsissonsonsVousezissezezIIs/EllesentissententSuper Five Irregular Verbs:There are verbs that don't follow this pattern.		go) <u>ALLER: to go</u> Je vais I go/am going Tu vas You go/are going (s.) II/Elle/On va He/she/one goes/is going Nous allons We go/are going Vous allez You go/are going (p.) IIs/Elles vont They go/are going Step 2: Add an infinitive (the thing you're going to do).		AVOIR: to have J'ai I have Tu as You have Il/elle/on a He/she/one has Nous avons We have Vous avez You have Ils/elles ont They have Step 2: Add the past participle (see rules below) Take the infinitive – chop off the ER + add é Take the infinitive – chop off the IR + add i Take the infinitive – chop off the RE + add u			
The 4 most i sheet (ÊTRE,	•	-	erbs are on this AIRE).	e.g. I'm going to play Je vais jouer			Awesome French Things to Say j'en ai hâte! I can't wait for it!
il/elle/on estHe/she/one isil/elle/on faitHe/shenous sommeswe arenous faisonswe dovous êtesyou arevous faitesyou doils/elles sontthey are (m)they are (m)they are (m)		l do You do (s) He/she/one does	Je suis Nous s Je suis	allé (e) I wen allé (e) I wen commes allé(e)s We w resté (e) I stay commes resté(e)s We s <u>Opinions</u> C'est – it 's C'était – it was	nt vent ved	Que je sacheAs far as I knowles derniers/dernièresthe latestC'est mon trucIt's my (kind of) thingCe n'est pas mon trucIt's not my (kind of) thingen regardant la téléwhile watching TVen écoutant de la musiquewhile listening to musicen faisant des devoirswhile doing homework	

Ce sera – it will be

NFO 2021

Est-ce que tu aimes... ? Do you like...?

Do you like?				
OPINION	NOUN	JUSTIFICATION	INTENSIFIERS	ADJECTIVES
Je préfère	le pain (bread)	parce que c'est because it is	très very	agréable (pleasant)
l prefer	le poisson (fish)			délicieux/euse (delicious)
Vedere	le fromage (cheese)			fantastique (fantastic)
J'adore I love	E le beurre (butter)		assez quite	lantastique (lantastic)
	 de lait (milk) de café (coffee) 		quite	savoureux/euse (tasty)
J'aime	le thé (tea)		un peu	sain/e (healthy)
l like	ie cola (coke)		a bit	Sanye (neartify)
	le sucre (sugar)		_	horrible (horrible)
Je n'aime pas I don't like	De Jambon (ham)		trop too	terrible (awful)
	ie chocolat chaud			doux/douce (sweet)
Je déteste	(hot chocolate)			
I hate	la pomme (apple)			aigre (sour)
À mon avis	la viande (meat)			dégoûtant/e (disgusting)
In my opinion	 la viande (meat) la confiture (jam) la glace (ice-cream) 			épicé/e (spicy)
in my opinion	la a la autorata consta			
Je pense que	les haricots verts			salé (salty)
I think that	<pre></pre>			gras/se (fatty)
	vegetables)			bon/ne pour la santé
	les frites (chips)			(good for your health)
	les chips (crisps)			mauvais/e pour la santé
	Ies epinards (spinach)			(bad for your health)
	I'oeuf (egg)			REMEMBER TO MAKE THE
	्रु l'eau (water)			ADJECTIVES AGREE WITH THE NOUN
1	1	1	4	

7-

Quand est-ce que tu manges?	When do you eat?	
Le petit déjeuner	Breakfast	
Le déjeuner	Lunch	
Le goûter	Snack	
Le dîner	Evening meal/tea	

DANS LE MARCHÉ/ SUPERMARCHÉ	IN THE MARKET / SUPERMARKET	
Tu voudrais?	Would you like?	
Un paquet de	A packet of	
Un litre de	A litre of	
Un kilo de	A kilo of	1
Un demi kilo de	Half a kilo of	
Une bouteille de	A bottle of	

Food and Drink FRENCH



AU RESTAURANT		IN THE RESTAURANT
Qu'est-ce que vous voule	Z	What would you like to eat?
manger? Est-ce que je per	ux	Can I help you?
vous aider?		
Comme entrée		For the starter
Comme plat principal		For the main
Comme dessert		For dessert
Comme boisson		For drinks
Je voudrais		l would like
Manger/boire		To eat/ to drink
Je prends		I'll take (have)
Un serveur/ une serveuse	٤	A waiter/ waitress
L'addition s'il vous plaît	-	The bill, please
Le pourboire		The tip
C'est tout		That's all
Merci		Thank you
C'est combien ?	Нош	much?
dix	ноw 10	mach
vingt	20	
vingt et un	21	
trente	30	E
trente et un	31	
quarante	40	
cinquante	50	
soixante	60	
soixante-et-un	61	
soixante-dix	70	
soixante-onze	71	
quatre-vingt	80	
quatre-vingt-deux	82	
quatre-vingt-dix	90	
quatre-vingt-douze cent	92 100	DDOAD
deux cents	200	
ucua cento	200	



Year 8 Art

Creatures & Characters

Content: In this project you will develop knowledge of: what makes a memorable character/creature and learn different artists drawing styles.

Understand- what inspired artists to create their work and how to explain what makes it successful.

Α

R

Develop skills- drawing, shading, painting, and 3D media to create 3 dimensional shapes and show the influence of other artists in your own work and presentation of a final outcome.

Outcome- An original creature inspired by one or multiple artists which you have looked at over the course of the module.

Tim Burton

Known for pioneering goth culture in the American film industry, Burton is revered for his fantasy and gothic style which can been seen in both the Films he produces and his Illustrations









Keywords:

Mythologicalsomething that is fictitious (made up) or imaginary. Often found in mythology and fables.

Typography - arranging letters and text in a way that makes the copy legible, clear, and visually appealing to the reader.

Surrealism-is an art style that focuses on imagination and dream like images.

Anthropomorphism- is giving human characteristics to a nimals or objects

Assessment: (D) Demonstrate a deepeningknowledge, understanding and skills (O+)On Track- Demonstrate someknowledge, understanding and skills (O-)On Track- Demonstrate someknowledge, understanding and skills (Y)Yet to be on Trackdeveloping someknowledge, understanding and skills (A)Earlier Stage-minimal knowledge, understanding and skills

Analysis

•

All artist research pages should be

annotated Artwork-

Artist name

- Describe the work-what does it look like? Use the formal elements i.e. colour, line etc.
- What techniques/materials were used?
- What is your opinion of the work? How is it relevant to your own idea?

Sentence starters

I like/dislike the way the artist has used...because I think the colour scheme used is effective because... I think the artist has been inspired by...because

Evaluation of Your Artwork-

What inspired you to create the piece? What techniques did you use and why? What does it mean to you? How is it relevant to your idea?

Sentence starters

The technique I have used is... The skill/technique I found most difficult was...because...

I think my work is successful because...

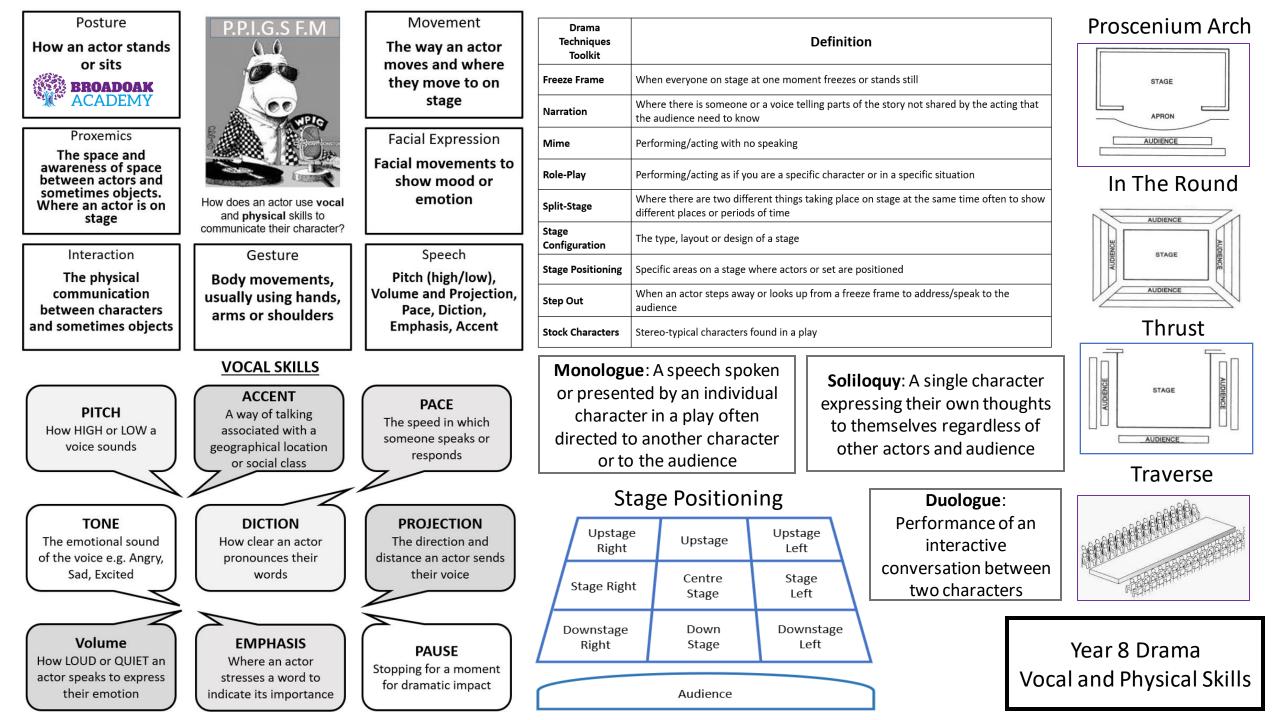


Developing Vocal Skills
Knowledge and understanding of how to use the voice to achieve a variety of effects, characters and
geographical places.
To develop the ability to control their voice in performance and in everyday life
To empathise with characters different from themselves
To challenge self-consciousness by stepping out of your comfort zone

Year 8 Drama -Voice

	Key Words	Definition	
15	Scene	A section of a play/act	7
16	Dialogue	Speech	
17	Duologue	Two people speaking	
18	Performance	A showcase	
19	Improvise	Creating a piece of unscripted work	
20	Script	Written dialogue	
22	Audience	Spectators	
23	Character	A person who you play in role	
24	Rehearsal	Practicing a scene/performance	

Pitch	This is how high or low a performer makes their voice when playing different roles. Pitch can show the age, gender and mood of the character.
Accent	This informs the audience where you are from e.g. cockney accent from East London.
Diction	This is how clearly you speak using enunciation and pronunciation.
Volume	This is how loud you speak, this could be from a stage whisper to shouting.
Emphasis	This is when a performer puts extra focus on a word or words within a sentence to make a point, this can be done by elongating, speaking louder or changing the tone of your voice.
Intonation	This is varying your voice so that it goes up and done, this help the fluency of your speech and helps the audience stay engaged with your dialogue.
Projection	This is speaking with strength. Opening your mouth wider creates a bigger projection.
Dialect	This is similar to speaking with an accent except it is more specific i.e. it tells the audience what region you are from e.g. London.
Tone	This is showing the mood that your character is feeling e.g. happy, sad, excited, frustrated etc.
Received	This is when you speak with a posh accent, taking care to enunciate each letter in every word. Performers use the front of their mouths when they are delivering their
Pronunciation	dialogue to give a nasal sound.
Enunciation	This is how well a performer speaks e.g. good enunciation means sounding out every letter in every word.
Pronunciation	This is the accent or mood you speak a line of dialogue with e.g. speaking English with a French accent.
Pace	This is how fast or slow a performer speaks. A character who is tired or bored may speak with a slow pace compared with a happy, excited character who will speak with a fast pace.









Staple Foods

Ingredients origins: You will learn about staple foods and where our food come from. You will learn about how their grown and transported around the world and the impact this has.









Food Miles are the distance over which a food item has travelled from producer to consumer.



EQUIPMENT Sharp Knife Vegetable/brown **Chopping Board Mixing Bowl** Sauce Pan Raw meat/Red Colander **Chopping Board** Wooden Spoon Container Muffin/cake Apron Tin



Appearance

Appetising, attractive, clear, cold, colourful, crumbly, dry, fattening, fresh, greasy, hot, moist, soggy, tasty.

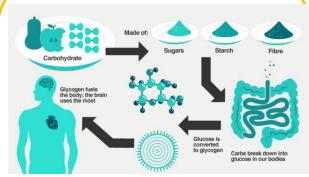
Smell/Taste

Acid, bitter, bland, burnt, creamy, dry, fatty, old, salty, sharp, soggy, sour, spicy, stale, sweet, watery, wet, tangy, tasteless, tasty, undercooked.

Texture

Airy, brittle, chewy, cold, greasy, gritty, hard, hot, juicy, lumpy, mushy, powdery, rubbery, slimy, smooth, soft, soggy, springy, sticky, Stiff, stringy, tender, thick, thin, tough, watery, warm,

Carbohydrates and Sugar





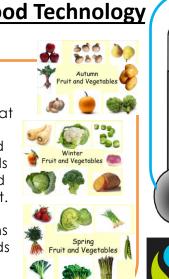
BROADOAK 🦛 🥟 World Food Technology Fruit and Vegetables

Why seasonal food?

Year 8

Foods are usually harvested when they are at their peak and typically have the most flavour and nutrients, so the food tends to be tastier, healthier and better for the environment.

Take a look at the seasons to see when different foods are at their best.



0-5°C = Fridge temp --18°C = Freezer temp What is fair trade? Fair trade is a way to connect disadvantaged farmers and workers with consumers, promote fairer trading conditions and empower farmers and workers to combat poverty, strengthen their

Macronutrients Fat, Protein,

Carbohydrate required in large amounts in the diet and have a larger impact on your body.

Nutrient	Role in the body	Food Example	Vi
Carbo- hydrate	The main source of energy for the body	Bread, rice, pasta, potatoes	Vi
Protein	Provides the body with growth and repair.	Meat, poultry, beans, eggs, lentils, tofu, fish	Vi
Fat	Provides the body with insulation and	Butter, oil, cheese, cream,	Vi
	protects vital organs. Provides essential fatty acids for the	nuts, oily fish, crisps	1
	body.		Ca

	-		
	Nutrient	Role in the body	Food Example
÷	Vitamin A	The skin and body lining. Also, normal vision and immune system	Dairy, dark green veg and orange fruit.
	Vitamin D	For absorbing calcium and phosphorus for health bones.	Sun, oil fish, eggs and meat.
	Vitamin E	Its an antioxidant that protects cells against damage and stress	All Vegetables, vegetable oil, seeds
	Vitamin C	Its an antioxidant that also helps with body tissue and healing.	Fruits especially citrus. Green veg and tomatoes.
	Vitamin K	Essential to blood clotting (making scabs)	Green veg, meat, oils and cereals
	Iron	Red blood cell transporting oxygen around the body.	Meat, beans, nuts, fish, whole grains and dark green veg
	Calcium	Bones, teeth, nerves and muscles. Also helps clotting	Dairy, green veg, soya beans and bread.

Critical temperatures

63°C or above = Hot held serving temp Dead

position and take more control over their lives.

100°C = Boiling point of water 75°C = Core temp of cooked food

37°C = Body Temperature

5-63°C = DANGER ZONE

Bacteria state

Multiplying

Multiplying

Suspended

Frozen

Dead

Dead

Nutritional impact: CHILDHOOD OBESITY CREASES RISK OF: PSYCHOLOGICAL STROKE ISSUES HEART SLEEP ADNEA DISEASE 70% of obese youth had at least one risk factor for cardiovascul BONE AND JOINT **TYPE 2** PROBLEMS DIABETES

Hygiene: The 4 C's:

Cleaning – surfaces, equipment and personal; to make sure bacteria is cleaned away

Cooking – To cook and make food more edible also killing bacteria.

Chilling – to keep food fresh stop it from perishing, stop bacteria from multiplying/growing.

HACCP

Cross contamination - to stop foreign objects and

different bacteria's crossing between ingredients/foods



Hazard - Anything that is likely to cause harm to the consumer

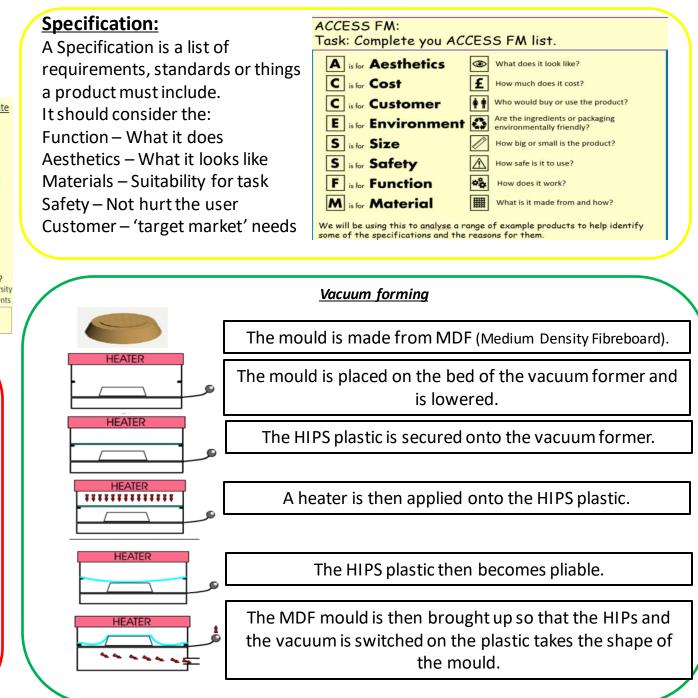
Analysis - Is when you look in detail at something

Critical - This means its very serious

Control Point - A step in the process where hazards or risks are likely to occur.

Design Technology Year 8 Interactive Game project







Design Technology Year 8 Interactive game

What is a Analysis?

Analysis means studying how well a product or material, does its job: "Finding what a product does and how well it does."







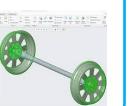


What is CAD:

Computer Aided Design

Is using a computer to develop, show or create a design. This can be 3D which means you can turn and get a realistic view from all sides. This means that the design can be changed and developed easily. These images can also be emailed and sent to manufactures, machines or clients.





Strength has 3 properties: Pulled in opposite Tensile directions and not break or crack. Compression Pressed and squished Nithout cracking or breaking. **Opposing forces** Shear ithout cutting through. Eddie Hall - not only An Ant can carry from won the worlds 10-50 times its own strongest man body weight. But also holds the record for the heaviest deadlif 500Kg

What is soldering?



Soldering is a permanent joint, it holds Components in place on a circuit board. The soldering iron heats solder up to 185 °C degrees. Solder is an alloy and is a mixture of tin and Lead. Solder also contains flux to ensure the join is clean for the best conductivity.



OUTPUT(S)

INPUT(S)

Inputs = the human or environmental impact that activates the circuit.

Process = the circuit **Outputs** = What the and its programs (micro product does. The final chips) working together result e.g., heat, sound, to make it function. movement.....





Heats up

PROCESS



Toast pops up!

Push the button



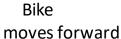
Feet push peddle

WW





Gear drive the wheels



Nails to catch the Even a design the back.

Fire

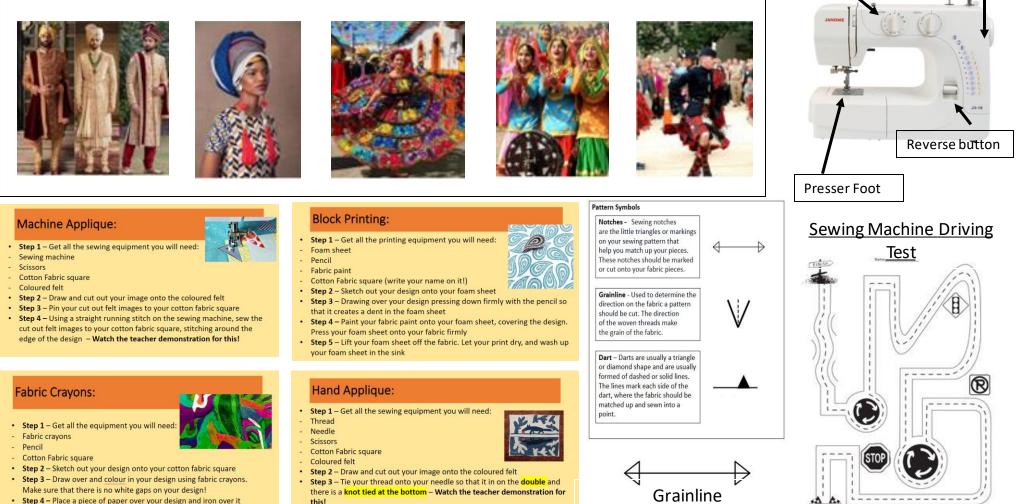
rolling ball lands in score



Textiles Year 8 – Culture Cushions

Textiles play a hugely important role in many cultures.

People in different parts of the world have developed their own techniques for creating textiles, which are often unique to their own culture and tradition. They often incorporate elements of the country and people who live there. Some textiles have signature patterns, some have hidden meanings, some tell a story, and many have a role to play in a country's traditions.



Thread Holder

Stitch Dials

Hand wheel

Pass with

martine

this! • Step 4 – Attach your felt image to the cotton fabric using a running stitch – Watch the teacher demonstration for this!



Design Brief	A design brief is the statement a client gives to a designer outlining what they want their product to be like, e.g. 'Design a drinks bottle holder for use while riding a bicycle'.
Mood board	Mood boards are an arrangement of images and text which are intended to inspire a project or concept.
Client Profile	A client profile is a summary of a specific customer and summarises key information about them, for example, what their likes and dislikes are.
ACCESSFM	Aesthetics, Customer, Cost, Environment, Size, Safety, Function
Hand Applique	Applique is a hand stitching technique in which one or more pieces of fabric are attached to a larger background fabric to create pictures or patterns.
Machine Applique	Machine applique is a sewing technique in which one or more pieces offabric are sewn to a larger background fabric to create pictures or patterns using a sewing machine.
Block Print	Block printing is the process of printing patterns. This is done by engraving shapes and patterns into foam, wooden blocks, or lino, and then adding fabric paint to the block and pressing it onto fabric.
Fabric Crayons	Fabric crayons are used to draw and colour designs onto fabric. The design is then fixed to the fabric by ironing it.
Seam Allowance	A seam allowance is the distance between the edge of the stitch line and the edge of the fabric. This is usually between 1cm– 1.5cm wide.
Right Sides Together	When a sewing instruction is to sew your pieces of fabric together 'right sides together', this means that the sides of fabric that you want to see when the project is finished , are facing together when you sewing them.

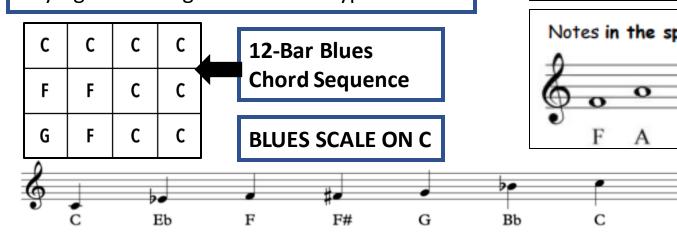


Blues Key Terms

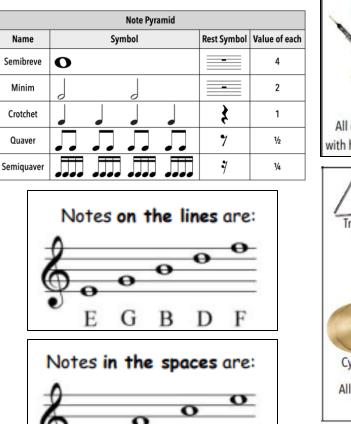
12 Bar Blues – Blues chord sequence
Bass line – low repeating pattern
Walking Bass – A bassline that keeps moving often walking up and down in pitch
Chord – 2 or more notes played together
Improvisation - Making it up as you go along
Melody – the main tune of the music
Blues Scale – A set of notes used in Blues
Lyrics – the words of the song
Rhythm – The combination of long and short notes

Depressed – Sad feelings

Oppressed – dominated by other people **Slave Trade** – the period of time where the buying and selling of slaves was typical.



Y8 Music How has Music narrated the struggle for equality?



E



Rhythm	The pattern of beats in a piece of music	Sharp
Melody	The main tune	Flat
Chord	Three notes played together at the same time	Duet
Crotchet	Lasts 1 beat of a pulse	Fluen
Minim	Lasts 2 beats of a pulse	Keyb
Quaver	Lasts 1/2 beat of a pulse	Lyrics
Semibreve	Lasts 4 beats of the pulse	Cond
Pulse	A constant steady beat which keeps all the music together	
Rest	Silence in music	Audie
Elements	The building blocks of music	Ense
Pitch	Whether the sound is high or low	Comp
Duration	The length of a sound	Impro
Tempo	The speed of the music	Bass
Timbre	The instruments used	Verse
Texture	How many layers of sound there are	
Dynamics	The volume of the music	Chor
Structure	The order of the sections	Roun
Silence	No sound, the gaps in the music	Balar
Accompaniment	Sounds going on under the main tune	Contr
Introduction	Music heard at the start of a piece - before the main tune comes in	Multit

Sharp #	Played with the black note to the RIGHT (F# / G# / C#)
Flat b	Played with the black note to the LEFT (Bb / Eb / Ab)
Duet	A tune shared between parts equally
Fluency	No hesitations in a performance
Keyboard	An electric piano
Ukulele	A guitar-like instrument with four strings
Lyrics	Words
Conductor	Leader of the music – links between the singing and the instrumentalists
Audience	The people who watch and listen to a performance
Ensemble	A group of performers
Compose	Making up your own music
Perform	Playing music in front of an audience
Improvisation	Making up music on the spot
Bass line	A repeating pattern played at a low pitch
Verse	The section of a song that tells the story and has different words each time
Chorus	The catchy section of a song that is repeated lots
Round	One person starts singing then the next person starts 4 or 8 beats later
Balance	How well the different parts are mixed together
Contrast	Big changes between sections
Multitrack	Layering different parts one at a time by recording them

