Significant People Fu Hao (also known as Lady Hao)

Jacinda Ardern (linked to the value of respect)



# Year 6 Curriculum Overview Term 1.1

# **Teaching Team:**

Class Teachers: Miss Fowler, Mr Chapman and Miss Shakespeare

Teaching Assistant: Miss West

**SLT:** Mr Aldred

**PE:** PE lessons are on **Tuesday**.

On this day, children must be wearing their P.E kits. This includes a white t-shirt, black bottoms and trainers. No jewellery is to be worn on PE days; parents must remove this before bringing their child to school on this day.

Homework: <u>Tuesday</u> and <u>Friday</u>.

Please see below an overview of the main themes, knowledge, and skills we will be covering this half term.

Enquiry Question	What is the impact of slavery and refugees on modern Britain?
Significant People	Razan al-Najjar
Class Texts	Freedom by Catherine Johnson
	Themes: discrimination, slavery, friendship, justice. "You are property. We all are. And you, Nathaniel Barratt will be a slave until the day you die!" When Nat is sent to England with his master, he dares to dream that life will be different. But being a slave in London isn't much better than being a slave in Jamaica, and Nat jumps at his first chance to run. Finally free, he hears the story of a nightmare slave ship, the Zong, and meets the people fighting to get justice for those on board Will the world continue to turn a blind eye to the horrors of slavery? And can Nat really evade his master forever?
Reading	Reading domain: 2b retrieve and record information / identify key details from fiction and non-fiction.  Test techniques: This half term, pupils will be developing their retrieval skills. They will begin by understanding the difference between literal and inferential, identifying question stems appropriate to the domain and skimming and scanning various texts to locate information with efficiency.

Writing	To begin this half term, the children will be writing letters. They shall start with informal letters, using our class text to support their content, before moving on to formal and persuasive letters.  When writing, the children shall consider the structure of their work, ensuring they are writing in the style of a letter and shall work to choose the correct and relevant language techniques to suit the audience.  When producing formal writing, the children shall write without contracted forms and make language choices that are appropriate. They shall also use techniques such as rhetorical questions, emotive language and repetition when writing persuasively.
Maths	During this half term, the pupils will be focusing on place value and number, with numbers up to 10,000,000 recapping on their knowledge of number from Year 5. They will learn to read, write, order, and compare numbers up to 10,000,000 and determine the value of each digit and solve number and practical problems that involve the above.
History	This term, the children shall be completing the unit 'Maafa.' This project teaches the children about Africa past and present, with a particular focus on Benin. It traces the development of the slave trade and explores Britain's role in the transatlantic slave trade, the causes, and consequences of the European colonisation of Africa and the worldwide communities that make up the African diaspora.

Geography	This term, the children shall complete the unit 'Our Changing World.' This essential skills and knowledge project revises the features of Earth, times zones and lines of latitude and longitude to pinpoint places on a map. Children find out more about map scales, grid references, contour lines and map symbols. They will also learn about climate change and the importance of global trade.
Science	This half term, the children will begin their science learning with the unit 'Evolution and Inheritance.' This project teaches children how living things on Earth have changed over time and how fossils provide evidence for this. They will also learn how characteristics are passed from parents to their offspring and how variation in offspring can affect their survival with changes possibly leading to the evolution of a species.  Moving into the second half of the half term, the children shall start the unit 'Circulatory System.' This project teaches the children about the transport role of the human circulatory system, its main parts, and primary functions. They will learn about healthy lifestyles choices and the effects of harmful substances on the body.
Mandarin	Children will be learning about these topics, this half term: • Countries • Places • Feelings
Art	In art, the children will complete the unit 'Trailblazers, Barrier Breakers.' This project teaches the children about significant black

	artists and their work and provides them with opportunities to analyse and create artwork inspired by them.
Music	The 6-week unit of work will build on previous learning. Pupils will begin to understand and explore how music is created, produced, and communicated, including through the interrelated dimensions: pitch, duration, dynamics, tempo, timbre, texture, structure and appropriate musical notations. The learning will be focused around one song: Happy by Pharrell Williams - a Pop song with a Soul influence about being happy. What makes you happy? Children will continue to find the pulse or 'heartbeat' of songs. They will also begin to use instruments through the iPads to begin composing their own pieces of music, with an ambition to perform and share their work.
Computing	This term, the children shall complete the unit 'Communication and Collaboration.' In this unit learners explore how data is transferred over the internet. Learners initially focus on addressing, before they move on to the makeup and structure of data packets. Learners then look at how the internet facilitates online communication and collaboration; they complete shared projects online and evaluate different methods of communication. Finally, they learn how to communicate responsibly by considering what should and should not be shared on the internet.

PSHE	Pupils will be exploring how we can keep healthy as we grow. Pupils will consider what mental health is, how to express feelings, how they can be managed in changing, challenging and difficult times.
RE	Year 6 pupils will be exploring the disposition of living by rules, what it means and why it may be important. They will consider the rules of some religions – Islam, Christianity and Judaism and think about the aims of them as well as comparing them to rules within society.
PE	Pupils will be taught the skills required for basketball and badminton. They will incorporate and develop their social and emotional skills through working as a team.

Knowledge Organisers:

# Reading

## Book Knowledge Organiser - Freedom by Catherine

#### Important Information

Plot
Nat is a 12-year-old boy born into slavery on a Jamaican sugar cane plantation
owned by the brutal English family, the Barratts. The story opens with his mum
and baby sister being taken away to work on another plantation, leaving him to
face his hardships alone. But when Nat is sent to England to look after some
exotic pineapple plants, he starts to dream of freedom. When he gets there he
discovers it's not true there is no slavery in England, but in the hustle and bustle
of reary I nothou life is a hif freer. When Nat meets the amazing Shadrack of crazy London, life is a bit freer. When Nat meets the amazing Shadrack Furman, his life is changed forever.

Themes
Family, freedom, friendship, relationships, resistance, slavery

SettingThe book takes place in two locations: the first chapters are set in Jamaica then SettingThe book takes place in two locations: the first chapters are set in Jamaica then the story moves to London. The first-person narrator allows the reader to know the main character intimately. We sense the world through the character's senses and understand his thoughts and feelings in detail. For example, 'My head hit the floor with a loud smack and the world went dark.' Nathaniel's use of similes, such as 'shaking a mat Mamma had made from rushes and tossing it aside like it was a piece of dirt' brings his emotions to life.

#### Characters

Mathaniel Nathaniel Nathaniel is a 12-year-old ensisted boy from Jamaica. He is separated from his mother and sister and sent to work in England. He is a very determined boy who is always looking for a way to escape and earn the money required to buy his family is freedom. He recalls his mother's words about standing tall and being proved, fiding his tears so his owners do not have the selfaction of seeing how much they

hurt him. Mistress Barratt. Mistress Barratt owns Nathaniel; she is cruel and mistreats him. She is very close to her parrot, Mr Bird, who is vicious and acts as a guard dog.

Bird, Who is victors and sects as a guest out,

Henry Hughes

Henry is a lively 14-year-old cabin boy from London. He befriends Nathaniel and they become like

brothers. He treats Nathaniel as an equal.

Shadrack Furman.

Shadrack Furman

Shadrack Furman but one sense of the state of the sense of the se the abolition of slavery.

# Johnson



Name of Book Date Published: 02/08/2018 Author: Catherine Johnson Genre: Historical fiction

Link to Enquiry: The novel takes place in 1783, and although the main character is fictional, real historical figures and events are included. Children will learn about the development of the slave trade. It also explores trainist role in the transatlantic slave trade, the causes and consequences of the European colonication of the slave trade.

- Key Questions/Reflection Points
  What has the story taught you? Think about values.
  What is the difference between a refugee and an asylum seeker?
  Which characters did you find the most interesting? Why?
  How would you describe the tone of the book?
  How effective is the book in raising awareness of this issue?
  Does slavery still exist today?
  How has the salar trade affected modern Britain?

- Does slavery still exist today?
  How has the save trade affected modern Britain?
  What is 'Windrush'? Black lives matter?
  How did Britain prosper from the enslavement of African people?
  What conditions did slaves have to live in?
  How many slaves were set free?
  Who was Olaudah Equiano?

	Key Vocabulary	
Asylum	the protection granted by a state to someone who has left their home country as a political refugee.	
Refugee	a person who has been forced to leave their country in order to escape war, persecution, or natural disaster.	
Dialect	A form of language spoken in a particular area.	
immigrant	a person who comes to live permanently in a foreign country.	
Illegal immigrant	continued residence without the legal right to live in that country.	
Discrimination	the unjust or prejudicial treatment of different categories of people, especially on the grounds of race, age, gender, or disability.	
prejudice	preconceived opinion that is not based on reason or actual experience.	
Abolition	Abolitionism, or the abolitionist movement, is the movement to end slavery.	
plantation	an estate on which crops such as coffee, sugar, and tobacco are grown.	
Merchant ship	a watercraft that transports cargo or carries passengers for hire	
diaspora	A diaspora is a scattered population whose origin lies in a separate geographic locale. Historically, the word diaspora was used to refer to the mass dispersion of a population from its indigenous territories.	

# Writing

SpellingsI need to know some of these:			
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	оссиру	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

# **Punctuation Reminders:**

Α	Capital letters for sentences, initials and proper nouns.		
	Full stops		
!	Exclamation marks for exclamations or surprise.		
?	Question marks		
•	Apostrophes for possession and missing letters.		
,	Commas in lists, and to mark parenthesis, fronted adverbials and clauses.		
	Ellipsis to show a long pause for tension.		
	Inverted commas for speech (Don't forget the commas too!).		
-	Hyphen to connect words together.		
-	Dashes to show longer pauses or parenthesis.		

#### Splendid Subordination!

Brackets for parenthesis.

Use these conjunctions in varied places in your multi-clause sentences:

because before after until unless since when

Can you use a subordinate clause in different places in your sentences?

# Writing Mat Working towards Year 6

#### Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

**Passive:** In front of millions of screaming fans, a vital penalty was missed by the star striker.

#### Important Links!

Link your sentences and paragraphs using adverbials:

Subsequently, Later that day, Finally,

#### Place

Deep inside the forest, Below the sea,

#### Frequency

Occasionally, Often,

#### Contrast/ Cause

On the other hand, In contrast, As a result, Consequently,

#### Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning, Suspecting the worst,

Use a mixture of simple, compound and multi-clause sentences

Use a thesaurus to up-level your vocabulary choices.

## It's All Relative!

Use a relative pronoun to add a relative clause

#### who, which, where, when, whose, that

The Queen, who has reigned for 60 years, has four children.

The stench was so putrid that it made her eyes water.

Theu had ventured deep into the forest where they began to feel uneasy.



#### **Important Links!**

Link your sentences and paragraphs using adverbials

#### Time

Subsequently, Later that dau.

Deep inside the forest, Below the sea,

#### Frequency

Occasionally, Often,

#### Contrast/ Cause

On the other hand, In contrast,

As a result. Consequently.

#### Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning,

### Creating Cohesion Top

Tip: Not only can you use pronouns like he, she, it or they instead of repeating a name or names but how about other names or titles too? Here's some examples: the teacher, she, Mrs Smith, the lovely woman or the lady with the long hair.

#### Be a Punctuation Professional: Writing Mat Capital letters for

sentences, initials and proper nouns.

Exclamation marks for exclamations or surprise.

Apostrophes for possession

Commas in lists, and

Ellipsis to show a long

Hyphen to connect words

Dashes to show longer

pauses or parenthesis

Brackets for extra information or asides.

Colon to separate clauses.

Semi colons to separate

pause for tension Inverted commas for speech (Don't forget the commas

Question marks

Full stops

sentences.

too!)

together.

Expected Year 6

#### Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides: The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

he advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring – swayed gently in the woodland breeze.

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed apprehensive

Or 'show' a character's feelings: his breathing quickened her heart raced

sweat trickled gasping for air

Spellings I need to know all of these:			
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
according	curiosity	interfere	relevant
achieve	definite	interrupt	restaurant
aggressive	desperate	language	rhyme
amateur	determined	leisure	rhythm
ancient	develop	lightning	sacrifice
apparent	dictionary	marvellous	secretary
appreciate	embarrass	mischievous	shoulder
attached	environment	muscle	sincere
available	equip(-ped)	necessary	sincerely
average	equipment	neighbour	soldier
awkward	especially	nuisance	stomach
bargain	exaggerate	оссиру	sufficient
bruise	excellent	occur	suggest
category	existence	opportunity	symbol
committee	explanation	parliament	system
communicate	familiar	physical	temperature
community	foreign	prejudice	thorough
competition	forty	privilege	twelfth
conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	anene	uacht

#### Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker.

## Check for:

- cohesive links · genre features
- and person · layout devices
- subject/verb
- paragraphs with

#### Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

because after until before when unless since

## Writing Mat Greater Depth Year 6

Spellings I need to know all of these:			
accommodate	correspond	hindrance	recognise
accompany	criticise	individual	recommend
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conscience	frequently	profession	variety
conscious	government	programme	vegetable
controversy	guarantee	pronunciation	vehicle
convenience	harass	queue	yacht

## Punctuation Reminders: . ! ? ' , " " () ... : ; -Use a full range of punctuation

- consistent tense and person
- subject/verb agreement
- · paragraphs with cohesive links
- · genre features
- · layout devices
- · pronouns/ nouns for cohesion

#### Active and Passive

Use active and passive sentences appropriately:

Active: In front of millions of screaming fans, the star striker missed a vital penalty.

Passive: In front of millions of screaming fans, a vital penalty was missed by the star striker

### Create a Mood!

Where appropriate, in formal writing, use the subjunctive mood:

If I were The Queen, ..

Were there to be a change in my circumstances

#### Splendid Subordination!

Use these conjunctions in varied places in your multi-clause sentences:

if	because	αs
before	after	until
unless	since	when

Use a thesaurus to look for more ambitious synonyms. Why use 'frightened' when you could use...

startled alarmed apprehensive Or 'show' a character's feelings:

his breathing quickened her heart raced sweat trickled gasping for air

## Perfect Parenthesis!

Use brackets, commas or dashes to punctuate extra information and asides:

The tomb of Tutankhamen (the Ancient Egyptian pharaoh) was discovered by Howard Carter.

The advancing alien, who was speaking a Martian language, looked dangerous.

The daffodils – my favourite sign of spring - swayed gently in the woodland breeze.

#### Be a Punctuation Professional!

Use semi colons, colons and dashes to mark independent

It felt like forever- the longest six weeks holiday of all time.

Jack's eyes slowly opened; there was no one to be seen.

They all knew his secret: he was a specialist secret agent

## **Important Links!**

Link your sentences and paragraphs using adverbials:

#### Time

Subsequently, Later that day,

# Place

Deep inside the forest, Below the

#### Frequency

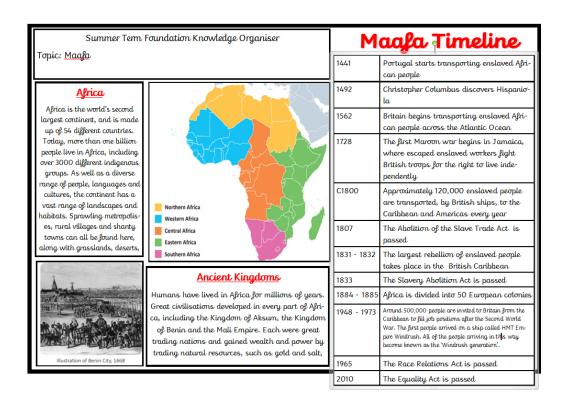
Occasionally, Often,

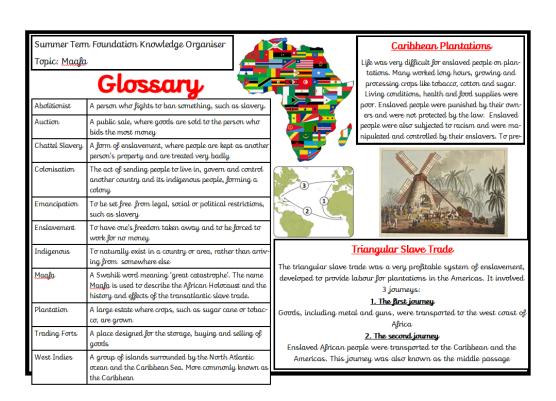
#### Contrast/ Cause

On the other hand, In contrast, As a result, Consequently,

## Manner/ Behaviour

Breathing heavily, Waiting anxiously, Without warning,





## **Our Changing World**

#### Time zones around the world

The world is split into 24 meridians because there are 2 hours in a day. Each meridian is in the centre of a time zone. The times around the world are calculated from the Prime Meridian. The time at the Prim Meridian is known as Greenwill Mean Time, abhreviated to



Mendain is known as Greenwich
Mean Time, abbreviated to
GMT. If the Prime Meridian, Greenwich
armap, the time is ahead of GMT (GMT+). If they are to the west of the
Prime Meridian, the time is behind GMT (GMT-).

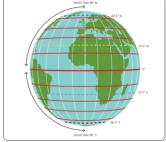
GMT

#### Latitude and longitude

Lines of latitude and longitude are imaginary lines around Earth. They are measured in degrees and help us to pinpoint exact locations. The lines of latitude run horizontal and measure how far north or south a point is from the equator. The countrie is the line of



is from the equator. The equator is the line of latitude at 0°. The lines of longitude run vertically and measure how far east or west a point is from the Prime Meridian is the line of longitude at 0°. The point where at 1° the house and longitude cross can be written as a coordinate.



**Features of Earth** 



The **equator** is the line of latitude around the middle of Earth. It is equidistant from the North Pole and the South Pole.

The Tropic of Cancer is 23.5°N and the Tropic of Capricorn is 23.5°S of

The **Antarctic Circle** is a line of latitude that is 66.5°S of the eq There is no permanent human population within the Antarctic



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## Climate change and global warming

The climate is the usual weather conditions that occur in a place over a long time. The world's climate naturally changes over a long period of time; however, the current rate of change is unprecedented and has been linked to human actions. This large scale change to the climate is called 'climate change'. The main cause of climate change is global warming. The temperature on Earth has increased by about 1°C since 1880. Burning fossil fuels, deforestation and eating meat is likely to have the biggest effect on global warming and climate change.

## Extreme weather and people

Climate change is causing extreme weather events worldwide, including sever storms, cyclones, floods, sandstorms, heatwaves and droughts. Millions of people are affected by these extreme weather events every year.

The Global Climate Risk Index



Cyclone Idai moving towards franks the countries that are most affected by the effects of extreme weather related to climate change. The countries most affected in 2019 were Mozambique and Zimbabwe in Africa, and the Bahamas in North America.

#### Trade around the world

Countries worldwide export and import fossil fuels, metal ores, food and manufactured products. The availability of natural resources, the climate and the type of soil in different countries can influence what they export. For example, Ecuador exports 30% of the world's bananas because they grow well all year round in the tropical climate.

#### Traffic data

Data is information, including facts and statistics, that is collected, analysed and acted upon. Traffic data about road accidents in Great Britain in 2019 show that most fatalities happened on fast, rural roads. Reasons for this could include speeding, blind bends, people walking in the road, lack of cycle lanes, and motorcyclists overtaking or having little knowledge of the roads. Urban roads have more traffic, but are usually wider and have fewer bends. They can also have cycle lanes and more footpaths, so, even though there are more accidents, there are fewer fatalities.

## **Human settlement patterns**

A settlement is a place where people live permanently. Settlements can A settlement is a place where people we permanently, settlements of the rural or urban. Rural settlements are small in area and population. They include hamlets and villages. Urban settlements are larger than rural settlements. They include towns and cities.

rural settlements. Iney include towns and cities. There are different settlement patterns, including linear, circular, Y-shaped, T-shaped and cross-shaped. Settlements can be compact, where many houses are built close to each other, or dispersed, where the houses are scattered across fields or hillsides. Sometimes, settlements grow and change over time. Handlest become villages, villages become towns, and towns become cities.









# Grid references, contour lines

On a map, a grid reference is a on a map, a grio reference is a set of numbers that describes a position. Contour lines join points of equal height above sea level and show the topography of an area. Map symbols are pictures or icons that represent physical and human features.

and map symbols



#### Map scales

Maps are much smaller than the places they represent so they are drawn to scale. The scale is written as a ratio, for example, 1cm:250m, which means 1 cm on a map is equal to 250m in real life. Maps also include a scale bar. The ratio and scale bar help a map reader measure the distance between features on a map or the length of a feature, such as a footpath.



#### Maps of different scales

Maps can be drawn to different scales. We describe maps as small scale or large scale. Small scale maps have large numbers in their ratio, such as 1cm:250km. They show continents or large areas of land or sea and contain little detail. Large scale maps have smaller numbers in their ratio, such as 1cm:250m. They show smaller areas of land in more detail and include the location and names of cities, towns and villages, as well as human and physical features.





Glossary	
export	To send goods to another country for selling.
import	To buy goods and bring them into one country from another.
global warming	The increase in world temperatures caused by gases, such as carbon dioxide, being released into the atmosphere.
topography	The physical appearance of an area of land, especially relating to its shape and surface.

#### **Evolution and Inheritance**

Grouping living things based on their characteristics is called classification. The first classification system developed by the Swedish scientist Carl Linnaeus (1707–1778) divided all living things into two kingdoms, animals and plants. Today, scientists classify all living things into five kingdoms. The members of each kingdom have specific features in common.

Kingdom	animal kingdom	plant kingdom	fungus kingdom	protista kingdom	monera kingdom
Features	multicellular     cannot make food     can move     live on land or in water     reproduce sexually	multicellular     make food using sunlight     cannot move     live on land or in water     reproduce sexually or asexually	unicellular or multicellular     cannot make food     cannot move     live on land or in water     reproduce sexually or asexually	unicellular or multicellular     some make food, others can not     most can move     live in water     reproduce sexually and asexually	unicellular     make food     most can move     live on land or in water     reproduce asexually

#### Microorganisms and viruses

A microorganism is a living thing, it is too small to be seen without a microscope. Microorganisms can be found in the fungus, protista and monera kingdoms. Most microorganisms are beneficial. For example, cyanobacteria make oxygen, cyanobacteria make oxygen, and a variefullar fungue called cyanobacteria make oxygen, and a unicellular fungus called yeast is added to bread to make it rise. Some microorganisms are pathogens, which means they cause disease in other living things.

living things. Viruses are not microorganisms as they are not living and need a host to survive. They are not part of any of the kingdoms. Some viruses can be beneficial and others harmful. For example, the virus SARS-CoV-2 causes the illness COVID-19.





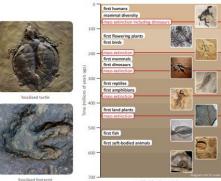
#### Fossils and the fossil record

Fossils are the remains of once-living things or traces of life, such as footprints, tracks, dung or burrows, that have been preserved a rock. Preserved remains and traces of life are called fossils if they are over 10,000 years old. The fossil record was created by scientists to group and make sense of the vast amount of fossils that have been discovered. It is ordered from the oldest fossils found deepest in the ground to the newest fossils found closest to the surface. It provides a history of

The fossil record tells us about:

- the living things that have inhabited Earth . the Earth's environment over time
- how species have evolved

However, the fossil record is incomplete because soft-bodied animals decayed too quickly to be fossilised and fossils are still buried in the Earth's rocky layers.



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#### The theory of evolution

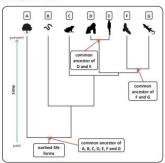
The theory of evolution was first developed by the naturalists Charles Darwin and Alfred Russel Wallace in 1858. The theory states three assumptions:

- All life on Earth has evolved from simple life forms to more complex ones over time.
- All life on Earth has common ancestors and is therefore related.
- Living things with characteristics most suited to their environment are more likely to survive and reproduce.

At first, the theory was controversial. Some saw it as an explanation for the variety of species on Earth, but others saw it as blasphemous as it challenged the Christian belief that God created the Earth and all gring things. Today, the fossil record and DNA evidence support the theory of evolution.

## **Evolutionary tree diagrams**

Charles Darwin sketched a branching tree diagram to help explain the theory of evolution. Evolutionary tree diagrams today represent what scientists think they know about the evolutionary relationships between different living things; however, they are not fact. Those living things with a more recent common ancestor, such as D and E, are said to be more closely related than those with a less recent common ancestor, such as F and G.



#### Inheritance

ing things that sexually reproduce pass on inherited characteristics to their offspring, such as skin colour and eye colour. Offspring inherit one copy of ch gene from the female parent and one from the male parent. This mixing of genes means that offspring are unique, differing from their parents and

#### Variation

#### Natural selection, adaptation and survival of the fittest

Survival of the fittest

Natural selection is the process behind
the theory of evolution. Variation within
a species is caused by small, natural
changes in DNA between Individuals
and the random mixing of parent DNA
following sexual reproduction. If a
variation positively affects a living third
a variation positively affects a living third
a variation positively affects a living third
to live long enough to reproduce and
pass on the attribute to their offspring.
This process naturally selects those
individuals who are better able to
survive in their habitat, and is one
survived in their third third.
Survival of the fittest! Over time,
positive attributes become common
among a species and are seen as
adaptations. For example, ancestor
adaptations. For example, ancestor
adaptations in the species.
There are three different types of plant
There are three different types of plant

There are three different types of plant adaptation:

**Structural**: Cacti have modified leaves called spines to deter animals from eating them.

Chemical: Stinging nettles have hairs containing chemicals that sting when touched to deter animals.







#### **Artificial selection**

Artificial selection, also called selective breeding, is the process where humans breed animals and plants to produce offspring with what they consider to be desirable characteristics.

Examples include breeding cows that produce large quantities of milk or crops that are disease-resistant and produce lots of grain.

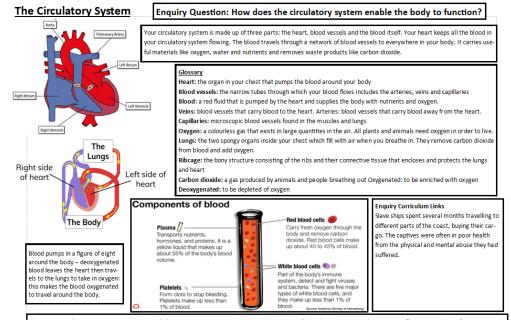




#### Glossary

adaptation	A physical or behavioural characteristic that allows a living thing to better survive in its habitat.
ancestor	A living thing from which others have evolved.
deoxyribonucleic acid or DNA	The inherited material inside all cells that carries the instructions needed for that living thing to develop and survive.
evolve	To change gradually over a long period of time.
gene	A small section of DNA that acts as instructions for a specific inherited characteristic, such as eye colour.
multicellular Consisting of many cells.	
species	A group of similar living things that can reproduce naturally.
unicellular	Consisting of a single cell.





The Heart Your heart is a very strong muscle and plays an important part in being healthy. It keeps all the blood in your circulatory system flowing. Your heart first pumps blood to your lungs. Here, the blood picks up oxygen from the air that you have breathed in. The blood (carrying oxygen) then travels back to your heart. The heart gives the blood a second push. This time, it's sent all around the body to the various organs and tissues. The blood travels back to the heart and it all begins again

# Home Learning You could visit the International Slavery Museum in Liverpool



# Reading:

Oxford Owl for School and Home

Reading and comprehension - English - Learning with BBC Bitesize - BBC Bitesize https://schoolreadinglist.co.uk/reading-lists-for-ks2-school-pupils/suggested-reading-list-for-year-6-pupils-ks2-age-10-11/

# Writing:

https://www.bbc.co.uk/bitesize/subjects/zv48q6f/year/zncsscw Spelling and Grammar, English Games for 7-11 Years - Topmarks

# Maths:

https://www.bbc.co.uk/bitesize/subjects/z826n39/year/zncsscw

## Science:

https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zkq7wnb

# Computing:

<u>Is my child safe online? Parent's questions answered | Barnardo's (barnardos.org.uk)</u>
<u>Parents and Carers - UK Safer Internet Centre</u>

Parental Controls & Privacy Settings Guides | Internet Matters

# PSHE:

Talk PANTS & Join Pantosaurus - The Underwear Rule | NSPCC How to make an emergency 999 call – West Midlands Ambulance Service University NHS Foundation Trust (wmas.nhs.uk)

## PF:

Nutrition Based Physical Activity Games - Action for Healthy Kids
Kids Active Learning & PE at Home – Think Active

Useful Links:				
https://www.theschoolrun.com/homework-help/atlantic-slave-trade https://www.unhcr.org/uk/teaching-about-refugees.html				