Year 4: Autumn 2 Curriculum Overview

HENHURST RIDGE PRIMARY ACADEMY



Maths

As Mathematicians, Year 4 will learn how to multiply and divide by 6, 7, 9, 11 and 12. They will begin to understand mathematical vocabulary such as 'quotient' in relation to division. They will learn how to calculate multiplication equations using the multiplication facts that they know. They will understand the difference between sharing and grouping and the commutative law in multiplication.

Writing

As writers, we are going to be working on a non-fiction text throughout this half term. We will have a class text ('Visit Britain') and the pupils will use this model to imitate, innovate then invent their own persuasive writing. Our lessons will be structured the following way: Handwriting, Spelling, Dictation then Grammar and Writing composition.

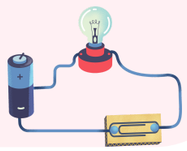


YEAR 4



Science

As Scientists, Year 4 will learn about 'Electricity and Circuits' where the children will explore electrical components and conductivity through circuit building and real life applications.





Geography

This half term in Geography Year 4 will complete the unit of 'Why are rainforests important to us?' They will examine the relationship between climate and biomes by locating the Amazon rainforest and investigating its physical features and vegetation.

Computing

This half term in Computing, Year 4 will be learning about Data handling: Investigating weather. They will be investigating how weather data is gathered, recorded and used to create forecasts through researching and using spreadsheets to organise information.





PE

This half term in PE, Year 4 will be doing Indoor Athletics on Fridays (with Mr Furniss). On Tuesdays they will be developing different dancing skills planned around different themes. They will focus on creating characters and narrative through movement and gesture.

Reading

We will be reading 'Kensuke's Kingdom' by Michael Morpurgo, which is a lovely story about a boy and his dog who get shipwrecked on a deserted island but will find out they are not alone...





DT

In DT, the pupils will design and bake their own biscuits in groups. They will be learning a basic biscuit recipe and adapting it for a new audience while considering the cost of ingredients and other expenses against a set budget.



PSHE

In PSHE, we will explore the unit of 'Connect with others: How we can respect each other?'. The class will be examining respectful and disrespectful behaviour by considering how actions and expectations can vary in different settings.

Music

This half term in Music, we will be completing our 'Rock and Roll' unit which will be as much fun as it sounds. The children will perform the hand jive, sing in tune and perform their actions in time and play the notes of the walking bass in the correct sequence amongst other fun activities.





RE

In RE, our next unit is called, 'What makes some texts sacred?' The children will be examining the role of scripture in different religions by exploring how sacred texts are used and treated.



Spanish

This half term in Spanish, the children will learn the names of pets and other animals in Spanish as well as describing them.

HENHURST RIDGE PRIMARY ACADEMY

Year 4: Autumn 2 Home Learning Menu

YEAR 4

TT Rockstars – to practise times tables and improve speed and accuracy. Spend 5 minutes a day on TT Rockstars to build fluency with multiplication facts.

Mathletics – to build on class learning and strengthen maths skills. Log on to Mathletics regularly to complete set tasks that link to current topics.

EdShed – to practise weekly spellings through fun games. Play on EdShed several times a week to rehearse spellings in fun, interactive ways.

Practise numbers we have learnt in Spanish and practise telling the date.	Write a few sentences of description about something you would want others to know about (for example, your favourite superhero character, your favourite toy, etc.).	Keep a diary about the weather for a couple of weeks to see a pattern in the climate of Great Britain. Let's see if it is different from the climate in the rainforests.	Research information about the origin of 'Rock and Roll'. Can you find an old Rock and Roll song you like the rhythm of?	OK! Let's see those dance moves! Pretend you're a robot and dance away!
Have a little think and share your ideas: what is the difference between belief and opinion?	Making connections with our class book: can you research a true story about someone who got shipwrecked and survived?	Imagine you are a in a rainforest. What is it like living there?	Write and illustrate a short poem about the Amazon Rainforest.	Look around at home and find different electic suppliances.
Research some famous scriptures of different beliefs and religions.	Think of the Amazon Rainforest. What negative impact do humans have on it?	Do you remember rounding? Round some 4-digit numbers to the nearest 10, 100 and 1000.	Do you know any songs about the rainforest? Can you research some and show the class?	Reflect on your day every evening. Write down 2 things that you are grateful for.
Experiment with helping an adult in the kitchen. What kind of foods/meals did you create together?	Help your grown-up write a shopping list and find the items in the shop.	Build a habit of daily exercising. Can you do 10 hops, 10 squats and 10 star jumps every morning?	Represent different multiplication and division questions.	The REAL CHALLENGE: test yourself! How long can you go without electricity? Will you last an hour? Half a day? A WHOLE DAY????

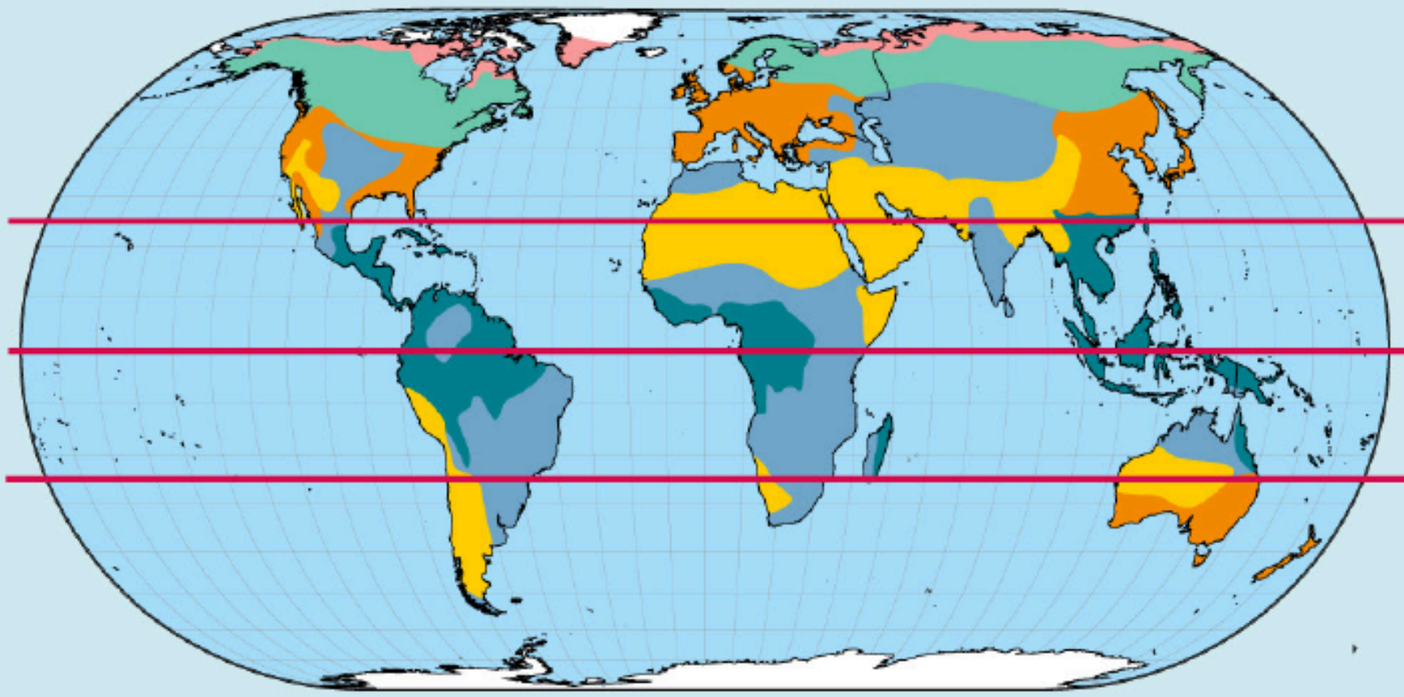
Geography - Why are rainforests important to us?

Map of the world's biomes

biome

An area of the world with a similar climate and landscape, where similar plants and animals live.

- Tundra
- Boreal forest
- Temperate deciduous forest
- Savannah
- Tropical rainforest
- Desert



Tropic of Cancer

A line of latitude north of the Equator which marks the northernmost edge of the Earth's hottest regions.

Equator

An invisible horizontal line that splits the world into two hemispheres.

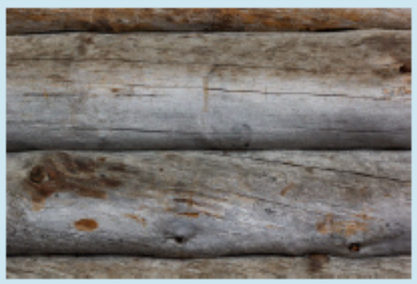
Tropic of Capricorn

A line of latitude south of the Equator which marks the southernmost edge of the Earth's hottest regions.

Tropical rainforest



How have plants adapted in the Amazon rainforest?



Thin, smooth bark ensures rain can run off trees easily.



Buttress roots keep tall trees stable in the wet soil and strong winds.



Drip tips mean rain can run off leaves without damaging them.



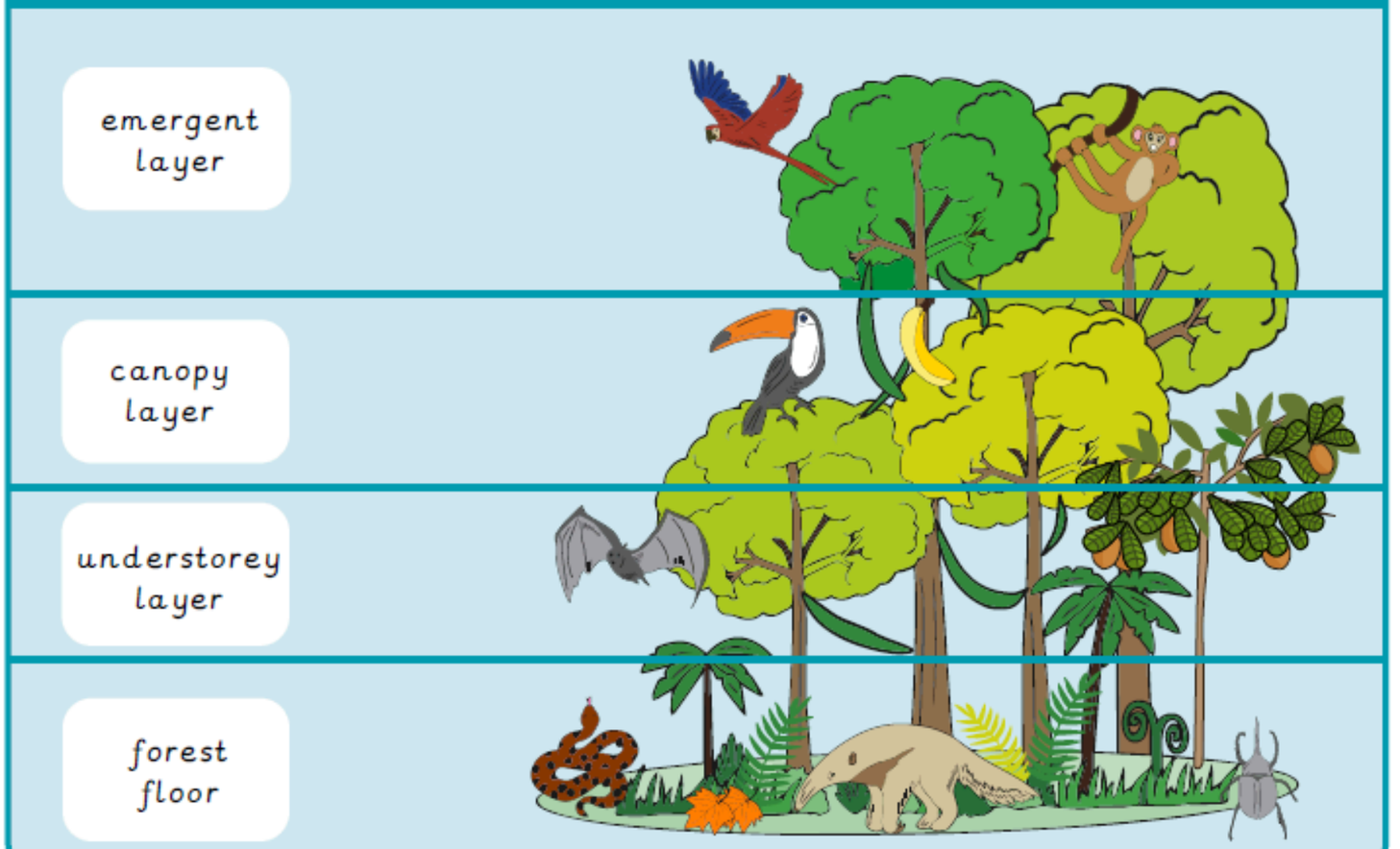
Lianas (vines) wind their way up other plants to reach sunlight.

Geography - Why are rainforests important to us?

Map of the Amazon rainforest



Layers of the rainforest



global warming



When our Earth's temperature rises because of greenhouse gases.

mining



The process of digging up valuable minerals from the Earth's crust.

logging



The cutting down of trees for their wood.

deforestation



The cutting down of trees in a large area.

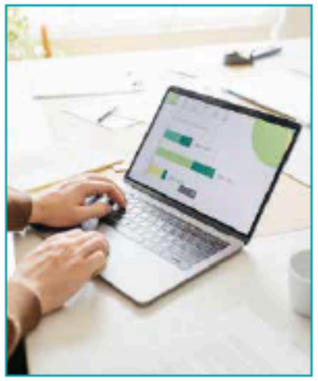
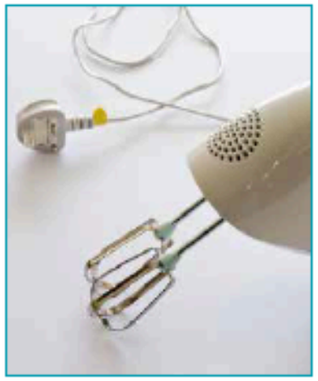
emergent layer	The top layer of the rainforest with the tallest trees that get lots of sunlight, rain and wind.
canopy layer	The layer of overlapping branches and leaves below the top of the rainforest that gets sunlight, rain and wind.
understorey layer	The warm and damp layer above the forest floor that gets little light.
forest floor	The ground layer of the rainforest where it is dark, wet and hot.

Science - Electricity and circuits

Electrical appliances

Electrical appliances are found all around us.





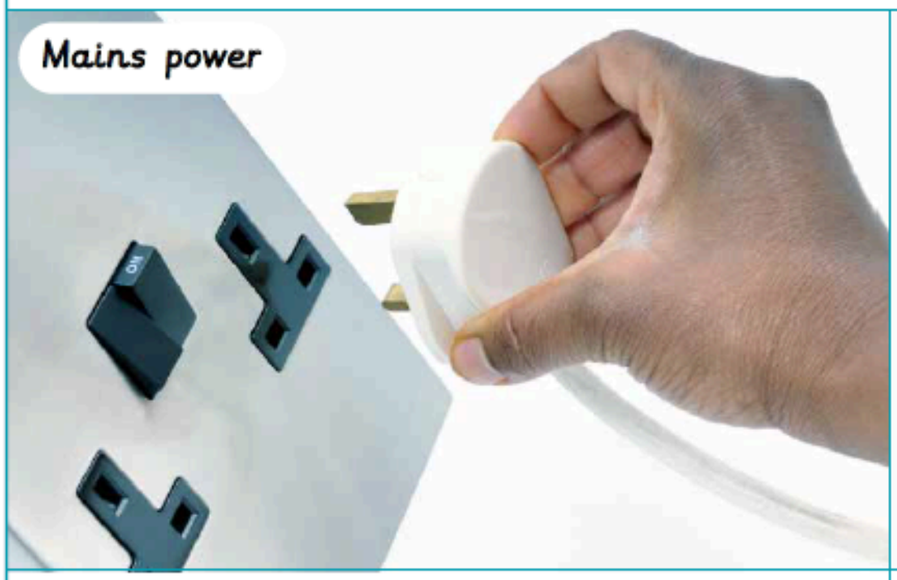
An electrical circuit is the pathway through which electrical charge flows in an appliance.

For a circuit to work, it must include:

- A power source.
- A complete pathway.
- A device or component, such as a bulb.

Power source: something that transfers electrical energy to make an appliance work.

Mains power



- Provides high power for larger appliances.
- Requires access to an electrical socket.
- Appliances are fixed in place.

Batteries



- Allows an appliance to be portable and used anywhere.
- Allows an appliance to be used where no electrical sockets are available.
- Batteries run out and need replacing.
- Batteries are harmful and must not go to landfill.

Science - Electricity and circuits

A **component** is a part of an electrical circuit.

Symbols are often used to represent the components so they are easy to draw and recognise.

battery/cell



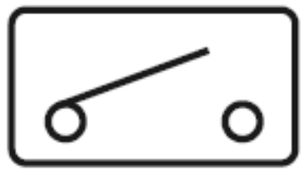
wire



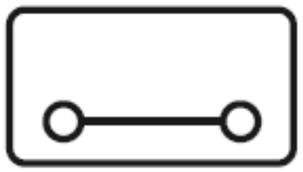
bulb



open switch



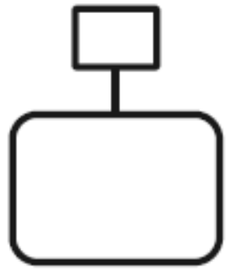
closed switch



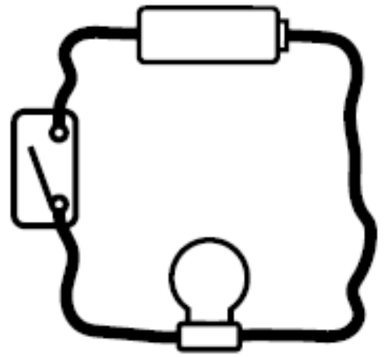
buzzer



motor



A **circuit diagram** is a simple line drawing that represents how the components in an appliance join together.



Electrical conductors are materials that allow electrical charge to flow through quickly.



Metals are good electrical conductors.

Electrical insulators are materials that do not allow electrical charge to flow easily.



Plastics are good electrical insulators.

Electrical safety



- Do not use electrical appliances or switches with wet hands.
- Do not put anything other than a plug in an electrical socket.
- Let an adult know if electrical appliances or wires appear damaged.
- Do not leave electrical wires laying across the floor or on hot surfaces.