



Federation of Penny Acres and Wigley Primary Schools –

Topic Map

The Vanishing Rainforest

Key Stage 2



<p><u>Curriculum driver(s) -</u></p> <ul style="list-style-type: none"> Geographical features in the rainforest. The impact to the environment. 		<p><u>Aims/Values drivers (taken from school's key aims/values) -</u></p> <ul style="list-style-type: none"> To understand how we can look after our environment To contrast living in the rainforest to our own lives 	
<p><u>Key Question drivers -</u></p> <ul style="list-style-type: none"> Where are the rainforests in the world? What plants and animals have their habitat in the rainforest? What are the environmental concerns with the rainforest today? 		<p><u>Authentic Outcome -</u></p> <ul style="list-style-type: none"> Be able to describe the rainforest and what it would be like if they went on a journey through it. 	
<p><u>Visits/Visitors -</u> Rainforest 'escape room' Virtual Rainforest</p>		<p><u>Role play -</u> Journeying through the rainforest Hot seating</p>	
English			
Reading (including key texts)	Writing		Spelling and Grammar
<p>The Explorer – Katherine Rundell Environmental Texts - The Vanishing Rainforest The Jabberwocky – classic poetry Range of non-fiction texts.</p>	<p>Y3/4 Write a verse of a nonsense poem – using a scaffold. Design a front cover using only the title. Monologues Discussion and write argument/viewpoint Plan and write a short adventure story. Letter writing Fact files</p>		<p>Y3/4 Looking at the spelling patterns in nonsense words. adjectives adverbs prepositions homophones Phrases and clauses Personal pronouns Emotive language Formal/informal</p>
<p>Y5/6 Extra texts in focused groups.</p>	<p>Y5/6 Write a verse of a nonsense poem. Design a front cover using a title. Monologues and soliloquy Write a balanced argument Postcards Diary Plan and write adventure story Letter writing Information texts</p>		<p>Y5/6 Describing the word type of nonsense words. Revision Active and passive Tense Punctuation</p>
Tiered vocabulary	<p>sceptical surreptitious(ly) proprietorial disconcertingly ominous(ly) tenacious sceptical(ly) haughtily traversed nonchalant indigenous unambiguous(ly) disdain dubious(ly) lurid cataclysm enigma tawdry</p>		

	jagged improvised writhing plumpest hiccup absurd wince furrowed kindling exhaled immense summons clammy bewildered foraging cascades stagnant undulating rile nook cranny bulbous encased defiant(ly) presumptuous billow(ed) dappled exquisite expanse foliage pungent impenetrable grotesque defiant placid solemn irate inquisitive writhing manacle foliage tendrils creepers canopy altitude infinite gingerly tributary
	board(ed) flare raw fumbles ferocious quivering plunged repel/repellent whine provisions paralysed horde rigid vicious vast impact flinch(ed) startle vines

Numeracy

Y3/4 Money – count, add and subtract money. Convert money into pounds and pence.

Tiered vocabulary	pounds (£), pence (p), convert, total, difference, change, price, cost, buy, bought, sell, sold, spend, spent, pay, change, dear, cost more, total
	notes, coins, pounds (£), pence(p), add, subtract, change, round to the nearest, order, greater than (>), less than (<), cheaper, more expensive, estimate, over estimate, under estimate, total, notation

Y5/6 Ratio – Using the language of ratio, calculating ratio, calculating scale factors.

Key vocabulary	ratio, proportion, part, whole, scale, scale factor, similar, notation,
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Y3/4 – Time – telling the time to the nearest minute, using am and pm, comparing durations.

Tiered vocabulary	month, year, midnight, midday, am, pm, duration, estimate, consecutive, hour, minute, second, past, to, start, end, duration, digital clock, analogue clock, Roman Numerals I-XII, leap year, twelve hour/twenty-four hour clock
	convert, compare, units of time, seconds, minutes, hours, days, weeks, months, years, 12 hours, 24 hours, analogue, digital, am/pm,

Years 5 and 6 Volume and capacity. Measuring and converting metres/ kilometres, grams/kilograms, millilitres/litres. Converting units of time and reading timetables.

Key Vocabulary	convert, metric units, imperial units, kilo, kilogram, metre, millimetre, centimetre, metre, kilometre, metre, kilometre, pound (lb), ounce (oz), inch (in), foot (ft), yard (yd), pint, gallon, stone (st), approximately, timetable,
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Position and direction. Describe position on a grid. Describe the movement of objects. Y5 and 6 – Translating and reflection of coordinates.

Tiered Vocabulary	position, horizontal, vertical, up, down, left, right, coordinate, square, rectangle, plot, vertex, vertices, point, grid, north (N), south (S), east (E), west (W), north-east (NE), north-west (NW), south-east (SE), south-west (SW), horizontal, vertical, diagonal, translate, translation, angle measurer, protractor, compass, degree, right angle, straight line, acute, obtuse, reflex, reflection, set square, reflection, translation, vertex, vertices, coordinates, mirror line, horizontal axis, vertical axis
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Y5 – Penny Acres
What is volume? Comparing and estimating volume and capacity.

Key Vocabulary	volume, cube, cuboid, 3D shape, solid, capacity, calculate, estimate, unit cubes, least, greatest
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Science
(Key Vocabulary and links to programmes of study)

Penny Acres - Light

Y3/4

Children will learn about: how we see, shadows, reflections, sun safety and how shadows change. Vocabulary: reflection, spectrum, reflect, travel, see, absence, light, dark, beam, ray, shadow, transparent, translucent, opaque.

Y5/6

Children will learn about: how light travels, reflections, refraction, periscopes, how we see, and shadows. Vocabulary: reflection, light, dark, shadow, beam, ray, spectrum, refraction, travel, angle, see, transparent, translucent, opaque, periscope, telescope.

Wigley – During the Light topic we will....

3/4 Explain how light is needed to see things and how the eye works.
Identify light sources and how light is reflected off things, including reflectors in the dark.
Explain shadow formation, and measure and record shadow lengths.
Experiments with sun dials and shadow sticks.
Explore patterns in the size of shadows (distance from light source)
Explain the effect of more than one light source
Group materials according to whether they are transparent, translucent or opaque.
Test how much light shines through different materials.

5/6 -

Explain how the eye works and how we see objects.
Show how light travels in straight lines and faster than sound.
See how light is reflected and how different colours of light are created.
Make shadow puppets and find out about the ray model.

Explore the relationship between light source, objects and shadows (size and distance)
Explain how periscopes work and research telescopes, binoculars, magnifying glasses etc
Find out about Helen Keller/Braille

3/4 - During the Sound topic we will.....

Investigate a range of sounds, how they are made and how sound travels.
Find out how telephones work, and how have they changed over time.
Find out how the ear works and find patterns between volume of sound and strength of vibrations that produce it.
See what materials give the best insulation for sound, and find patterns between the pitch of a sound and the features of the object that caused it.
Observe how sounds get fainter as the distance from the sound source increases.

5/6 - During the Evolution and inheritance topic we will.....

Explore family resemblance and observe that offspring vary and are not identical to parents.
Research the way humans have adapted over the years and how they are adapted to suit their environment.
Explore how living things have changed over time and how fossils provide evidence about living things. Find out about the life and work of Mary Anning.
Find out about Charles Darwin, and why he is still a controversial figure.
Identify how local animals and plants are adapted to suit their environment, and that adaptation may lead to evolution.
Research adaptation in extreme conditions and varied environments.

Computing

(Key Vocabulary and links to programmes of study)

Y3-6 Databases

Children will learn about different types of databases and create a database of rainforest animals. Vocabulary
Key Vocabulary - question, field, branching database, binary tree, edit, narrow, select, data, sort, group, arrange, statistics, answer, drop down box, text, number, icon.
Geography (Key Vocabulary and links to programmes of study)
Finding out where rainforests are in the World in relation to the Equator. Look at the human and physical features of the rainforests, including an in-depth study of Brazil, the Nile and the plants and animals of the rainforest.
Key Vocabulary - acid rain, adaptation, biodiversity, camouflage, canopy, carbon dioxide, climate, colony, decomposition, deforestation, drip tips, dry season, ecosystem, emergent layer, environment, equatorial, evergreen, extinct, farming, fertile, forest floor, fresh water, habitat, hibernate, humid, indigenous, liana, liana, logging, monsoon, plantation, pollution, rainforest, species, temperate, threat, tropical, understory, vegetation, wet season
History (Key Vocabulary and links to programmes of study)
None this term
PSHE (Key Vocabulary and links to programmes of study)
Drugs Education (continued from last term) Knowing how to make informed choices. Identifying some of the drugs/substances and assessing some of the risks/ effects. Identifying influences and when an influence becomes a pressure. Developing skills of how to ask for help. Identify basic emergency procedures. Understanding the term 'habit' and why habits can be hard to change.
Growing up/changes Growing up/changes - Celebrating our qualities. Life changes and feelings. Differences, similarities and equality. Basic hygiene. Recognising and challenging stereotypes. Media v reality. Body parts, puberty changes and human reproduction. Healthy loving relationships.
RE/Modern British Values (Key Vocabulary and links to programmes of study)
When life gets hard- Life, death, suffering and what matters most in life. Christian, Hindu and Humanist beliefs about life after death.
Hinduism - How Hindus show their faith. Hindu beliefs, traditions and teachings.
Art (Key Vocabulary and links to programmes of study)
Wigley - Still life - sketching shells, fossils and other natural objects Rainforest art Hindu art
Penny Acres - Frida Kahlo Children will study the artist Frida Kahlo by analysing her artwork, practising similar self-portraiture and producing their own self-portrait in the style of Frida Kahlo.
Food Technology (Key Vocabulary and links to programmes of study)
How plants, particularly fruits, are grown and where they come from. Comparing British seasonality to tropical fruits grown in the rainforests.
Music

(Key Vocabulary and links to programmes of study)

Wider opportunities –
Penny Acres – Steel Drums
Wigley - Violins

PE

(Key Vocabulary and links to programmes of study)

Athletics – track and field

Tennis (Wigley) Ball skills, defending, reactions, awareness, sided games.

HOMEWORK OPPORTUNITIES

Animal Creation:

Combine the features of 2 animals from the rainforest to create your own new animal. Make a fictional fact file for it. What name would you give it? Which features did you choose and why?

Rainforest Habitat:

Design and make a rainforest model. What could you use from our natural or man-made environment? Think about the different layers in the rainforest.

Rainforest Art:

Look at some of the artwork inspired by Rainforests. Create your own design using materials of your choice. (collage, paint, pencil, watercolour, chalks, colour pencils)

Did You Know?

Create your own amazing facts about the rainforests. Create 'did you know?' fact cards and teach your new found knowledge to your friends and family.

Rainforest Destruction:

Research what is happening to the rainforest and how the habitats of many animals are being destroyed. Write a formal letter to the Government to persuade them to 'Save our Rainforests'

My Own Ideas!

I am sure that you have some brilliant ideas that you want to do to show your learning about the rainforest. Be inventive and creative in your ideas. This is your turn to produce anything you like about the rainforest!