



## Topic Web Year 5 Term 3 Rumble in the Jungle

### Science: LIVING THINGS AND THEIR HABITATS

- Describe the difference in the life cycles of a mammal, an amphibian, an insect and a bird.
- Describe the life processes of reproduction in some plants and animals.

#### Cross Curricular Links:

- Create a graph on the different life cycles of animals
- Create a graph about gestation periods in different animals
- Write a fact file about different classifications of animals
- Write a report on the life cycle of animals

#### Cross Curricular ICT: DIGITAL PUBLISHING/PRESENTATION

LO: Group, align and arrange content in a digital publication using layout tools

Use Word to create a diagram of a life cycle – use the Smart Art tools to select and edit one of the relevant diagram templates

**SCIENCE VOCABULARY:** life cycle amphibian mammal Insect bird sexual reproduction asexual reproduction pollination internal and external fertilisation life cycle pollination naturalist polar arid desert pond rainforests.

### GEOGRAPHY: THE RAINFOREST

- Locate tropics of cancer and Capricorn and the equator on a map.
- **Recap what the equator is and where it is located.**
- Know the vegetation that occurs in the rainforest.
- Know the vocabulary 'longitude' and 'latitude' and know that this is measured in degrees.
- Know the basic geography of the rainforest.
- Know that rainforests are along the equator.
- Identify the countries which have rainforests.
- Identify layers of the rainforest.
- Recognise the types of animals that live in the rainforest.
- Know how land in the rainforest is used.
- Look at how land use in the rainforest has changed over time.
- Identify locations of prime rainforests using longitude and latitude

**GEOGRAPHY VOCABULARY:** biodiversity botanist camouflage extinct driptips equatorial indigenous humid tropical precipitation monsoon prey consumer vegetation preserve grazing cattle ranch endangered environment logging natural resources vegetation wildlife habitats conservation mining deforestation recycling understorey emergent layer canopy habitat predator

### CHALLENGE ACTIVITIES FOR THE MORE ABLE PUPILS - The Rainforest

- Rank the effectiveness of different forms of rainforest conservation.
- Write a guide to the different layers of the rainforest using as many technical terms as possible - and create a glossary.
- Investigate how plants and animals have adapted to the rainforest environment.
- Defend why it's important to preserve the rainforest.
- Assess the threats of deforestation - which do you think is the most destructive?
- Argue how deforestation leads to climate change.

### Art: PRINTING (USING THE RAINFOREST AS INSPIRATION)

- Create printing blocks by simplifying an initial sketch book idea.
- Use relief or impressed method.
- Create prints with three overlays.
- Work with prints with range of media e.g. pens, colour pens paints.

#### CHALLENGE ACTIVITIES FOR THE MORE ABLE:

- Create prints with more detail and complexity.
- Explore a selection of styles of printing and decide which one is the best for the task and how it links to the rainforest.
- Discuss how you would create printing blocks to fit the chosen style.

### Science: 2<sup>nd</sup> half: Forces

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- Identify the effects of air resistance, water resistance and friction that act between moving surfaces.
- Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

#### Cross Curricular Links:

- Order and compare the effect of levers, pulleys and gears on forces
- Compare and classify the forces of gravity on different planets
- Write a biography about Newton
- Write a report on an aerodynamic creature or vehicle
- Create and interpret charts and graphs about air resistance

#### Cross Curricular ICT: DIGITAL MEDIA

LO: Create an animation to show a process or explain something

Use Purple Mash 2 Animate to create a simple animation showing the action of a pulley, gear or lever.

**SCIENCE VOCABULARY:** gravity force speed up slow down change direction change shape gravity balanced unbalanced air resistance upthrust surface area gears pulleys levers movement friction water resistance pulleys levers gears

- Compare rainfall in the Amazon rainforest to other parts of the world.
- Investigate conservation projects and how they may preserve the rainforests in future.

#### Cross Curricular ICT: DIGITAL RESEARCH:

LO: Use online mapping tools and apps to find information

Use Google Maps to explore Rainforests around the world, locate the equator, latitude and longitude etc. Zoom in on the Amazon and use screenshots to explain the effects of the river on the surrounding land. Use Street View to compare life in a rainforest habitat to London (try Manaus in Brazil)

#### Cross Curricular ICT: DIGITAL DATA

LO: Use a spreadsheet to create a simple data table and graph

Use Purple Mash 2 Chart and/or Excel to create simple graphs to show rainfall and temperature in rainforest location and London

### D.T: TEXTILES - EMBROIDER A SCENE FROM THE RAINFOREST.

- Sketch and model ideas.
- Make prototypes.
- Understand pattern lay out.
- Decorate textiles appropriately before joining components.
- Pin and tack fabric pieces together.
- Join fabrics by blanket stitch and back stitch.
- Make quality products.
- Make suggestions about how their design can be improved.

#### CHALLENGE ACTIVITIES FOR THE MORE ABLE:

- Use complex types of stitching for adding details to their scene.
- Evaluate which fabrics work best for decorating and which are best to stitch and embroider.



<p><b>Music:</b></p> <ul style="list-style-type: none"> <li>• Pupils should play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy and fluency.</li> <li>• Improvise and compose music for a range of purposes using the interrelated dimensions of music.</li> <li>• Listen with attention to detail, recall sounds using aural memory.</li> <li>• Use and understand staff and other musical notations.</li> <li>• Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians.</li> <li>• Develop an understanding of the history of music</li> </ul>	<p>P.E dance, athletics, tennis and gymnastics</p>
<p><b>R.E - Animal law case</b></p> <ul style="list-style-type: none"> <li>• Do animals ever have a case against humans?</li> <li>• What do two religions say about how animals should be treated?</li> <li>• What wise words can we create about how to treat animals?</li> <li>• What footprint do we want to leave on the world?</li> </ul>	<p><b>Why is Muhammad (PBUH) important to Muslim people.</b></p> <ul style="list-style-type: none"> <li>• Who is Muhammad(PBUH)?</li> <li>• What events changed Muhammad's (PBUH) life?</li> <li>• Why is the Qur'an important to Muslims?</li> <li>• How do Muslims treat the Qur'an and why do they treat it in these ways?</li> <li>• How have Muhammad's (PBUH) words and actions affected the way the Muslims lead their lives?</li> <li>• Who has been the biggest influence on my life?</li> </ul>
<p><b>Computing</b> <b>Coding and Programming</b></p> <ul style="list-style-type: none"> <li>• Algorithms and Decomposition</li> <li>• Programming on screen</li> <li>• Sequence, Repetition, Selection</li> <li>• De-bugging</li> </ul>	<p><b>Computing</b> <b>Using Technology Safely</b></p> <ul style="list-style-type: none"> <li>• Social Networking</li> <li>• Being Responsible</li> <li>• Reporting Concerns</li> </ul>
<p><b>Entitlement and enrichment:</b> London Zoo/Battersea Zoo,</p>	
<p><b>Topic writing links: (please teach during Friday's literacy lesson and work in topic/Science books</b></p> <ul style="list-style-type: none"> <li>• Write a description of the rainforest.</li> <li>• Send a letter from the rainforest.</li> <li>• Create a report on one of the animals which live in the rainforest.</li> <li>• Create a poster encouraging people to visit the rainforest.</li> <li>• Write an explanation text about the different layers of the rainforest.</li> <li>• Take one of the environmental issues affecting the rainforest and write a persuasive speech about it.</li> <li>• Write a poem/rap about saving the rainforest.</li> <li>• Write about the life cycle of one of the animals found in the rainforest.</li> <li>• Create a fact file about David Attenborough.</li> <li>• Write up the experiments connected to forces using a formal tone.</li> </ul>	<p><b>Literacy books which link to the topic:</b> The Explorer Journey to the River Sea The Great Kapok tree Where the forest meets the sea.</p>
<p><b>Maths topic Links: (work to be in topic/Science books)</b> <b>Data-handling (Science)</b> <b>Measure - geography</b> <b>Shape - D.T/art</b></p>	