

# LEARN AT CHESTER ZOO

## ART AND DESIGN

Children to create Batik of their class rainforest animal. Inspired by those traditionally done in Malaysia. Children to practise skills of creating colour, pattern and texture in sketch book. Children to create a pencil drawing of their rainforest animal, using the effects of various colour, pattern and texture. Children to create a rainforest animal or oil palm tree plantation watercolour painting, using different paint effects, such as: dancing, light-filled passages to richly coloured transparent darks, from cascading wet washes to staccato dry brush.



## PHYSICAL EDUCATION

Children to create their own rainforest dance which tells a story of the plight of the animals living in the rainforest. From the beginning of living in harmony to the woes of deforestation, the removal of their home and pollution.

## COMPUTING

Children to create an animation of a stop frame animation on any aspect of their SPO work using titles, credits, transitions.

## SCIENCE

**Living things and their habitats** - Children to recognise that environments can change and that this can sometimes pose dangers to living things, making links to the deforestation to make way for palm oil plantations. (Link to persuasive writing project work – English). Children to Recognise that living things can be grouped in a variety of ways, including categorising the animals of the local and wider environment such as in rainforests. Including categorising vertebrate animals into groups such as fish, amphibians, reptiles, birds, and mammals; and invertebrates into snails and slugs, worms, spiders, and insects. Children to explore the negative impact of man on the environment through the deforestation of rainforests in Borneo because of unsustainably produced palm oil plantations and compare it to the positive impact when they are sustainably farmed. (Link to persuasive writing project work – English).

TOPIC: Sustainable Palm Oil Challenge  
KS2 Year: 4  
Term: Autumn / Spring / Summer

## DESIGN AND TECHNOLOGY

Children to research practically how pneumatics work. Explore tubing, balloons and syringes. Children to design, make and evaluate a 'pop up' rainforest using pneumatics.

## MUSIC

Children to create their own class palm oil conga, taking inspiration from the Chester Zoo palm oil conga. Children to use tuned and untuned instruments, as well as their voices to mimic the sounds of the rainforests and animals who live there.



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## GEOGRAPHY

Children to begin to identify given places (and symbols) on a large and medium-scale OS map, junior atlas, online map and globe. Study the location of major cities and towns in the UK and contrast to a map of South America. Consider how these differ to other areas of the country, in particular the rainforest. Identify rainforest features on aerial photographs. Children to use various map sources/ aerial photos/ satellite images /pictures to locate mountain ranges, rivers and oceans in the UK. Compare to those in South America. Which of these features pass through the rainforest? What animals may be affected by deforestation (by humans) in chosen region e.g. Ecuador? Investigate the cause and consequence of deforestation in the region. See Chester Zoo videos: 'What does Chester Zoo do in the rainforest of Ecuador?' and 'What is deforestation?' Compare to Science work, exploring the negative impact of man on the environment through the deforestation of the Borneo rainforest to create unsustainable palm oil. Relate to the fact that although 85% of palm oil production is produced in South-east Asia new restrictions there will probably increase palm oil plantations in Latin America. Sketch their own simple sketch map from a bird's eye (aerial) view point of rainforest in Indonesia and/ or the Amazon, from an aerial photograph/ satellite image. Mark in major physical and human features e.g. rivers, deforested land. Compare features from the Amazon and Indonesia by creating sketch maps in the local area of the school in the UK, including horizontal view sketch maps, with

## HISTORY

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more detailed keys and using direct observations and measurements. Compare to local maps e.g. OS maps. Possibly use letter/no. co-ordinates to help others locate features. Draw a simple scaled map (with key) of the rainforest habitat at Chester zoo from a bird's eye view point. The children can explore the animals and plants that live in e.g. Ecuador or Guatemala and compare to those that are found in the rainforest in Borneo and possibly Africa. Create a memory card game, matching the animal species with which rainforest it is found in the world. The children can categorise the vertebrate animals in the rainforests into their specific groups (see Science activities).



## ENGLISH



Children to retrieve information - on SPO from the factual information given by Chester Zoo and other reliable sources: WWF Children to write an explanation text – on what is PO, what is the effect of PO production on rainforest animals and the environment. Children to write a persuasive letter to persuade a supermarket CEO to sell RSPO palm oil products. Children to describe what's going on in the rainforests affected by unsustainable palm oil production through drama. Children to write a newspaper report about the effect of deforestation on the Malayan Tapir and other rainforest animals Children to write poetry – about deforestation caused by unsustainable palm oil production Children to write about the dilemmas and issues faced by the plantation farmers who are faced with making wildlife corridors through their plantation to ensure they can help the animals reach food in areas of the surrounding rainforest.

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