

Opportunities for Greater Depth/Challenge

Use measures and analysis to create a report on land use, cultural vulnerabilities, environmental impact and economic trade.

To make a programmable robot with more than 1 function.

Looking at and compare rainfall and temperature in South America and England.

TASC wheel/Blooms questions. Opportunities for Mantle of the Expert

TASC wheel: Design and make a robot to solve a problem in the rainforest (design, develop, build, appraise)

TASC wheel: Earth summit presentation (discuss, question, debate, conclude)

Mantle of the Expert: A team of environmental scientists investigate the impact of human activity on the natural resources and communities of the region. Create a presentation for the Earth summit



Outcomes and Impact

River Deep



Spring 1

Overview

A study of the similarities and differences between North East England and South America, focussing on location, major cities, rivers and key physical and human characteristics.

Eng

Stories that raise issues/dilemmas—deforestation.

Persuasion based on 'The Great Kapok Tree'

Presentation for Earth summit.

Maths

Scales for measuring including negative numbers on a thermometer.

Data when looking at human effect.

Graphing results in science.

Computing

Programming a movable object—link to DT.

History

- The discovery of South America



Science

- 4/2.1 All living things
Who lives here?
How can we group living things?
Does litter matter?
What happens when a food chain is broken?
What do zoo's do?
Should we have zoo's?
- 4/3.1 States of matter
Where did the water come from?
Where does the rain come from?



Geography

- Use maps to locate countries and cities using grid reference and compass points.
- The Amazon river compared to the river Tyne.
- Key human and physical features of the Amazon and the North East England.
- Field work—source of the Tyne.

Design Technology

- Investigating moving technology, how does it help us? What jobs do they do?
- Design and make a programmable robot to perform a task in/around the rainforest.
- Evaluate the effectiveness.

Art

Art 2.1, 2.2, 2.3

- Sketching still life
- Collage
- Work in the style of Henri Rousseau.

Music

Mu 2.1, 2.2, 2.3

- Times tables songs



RE

Judaism—Passover
- How important is it for Jewish people to do what God asks them to do?

PSHE & Citizenship

Money matters/Going for goals.

- Know how to look after money and pay for goods.
- Set a goal for yourself.

PE

Hockey and Quicksticks

Visitors/Visits

Sunderland Winter Gardens.

Language

Invertebrates, spiders, snails, vertebrates, fish, amphibian, reptile, birds, mammals, plants, flowering, environment, animals, human impact, nature reserves, ecologically planned, population, deforestation, development, litter, precipitation, evaporation, condensation, country, city, river, stream, water cycle, climate zones, settlements.