Willow Tree Academy - Year 4 - Going Green

Effects on Environment

- Melting glaciers and ice sheets could cause sea levels to rise.
- Melting sea ice is reducing polar habitats.
- Flooding of low-lying areas as a result of sea-levels rising rthis could lead to species extinctions due to habitat loss.
- Precipitation patterns are changing which will affect crop yields.
- Increased temperatures could lead to species extinctions.
- Increased sea temperatures cause coral bleaching, destroying their habitat.



Recycling - the action or process of converting waste into reusable material.



Reduced crop yields could cause

- More extreme weather.
- increased malnutrition.
- Melting ice could lead to flooding.
- Increased heat.
- New diseases and the migration of diseases to new areas.
- Water shortages could lead to political tensions.

Vocabulary

Climate Change - global warming as a result of human emissions and global changes to weather patterns.

Natural Hazards - naturally occurring

physical phenomena.

Upcycling - creative reuse of unwanted materials and products.

Adaption - a change in structure, function or behaviour.

Mitigation - the action of reduction the severity or seriousness of something.

Orbital Changes - natural warming and cooling of the Earth caused by tilt variations.

Important Places

Amazon Rainforest
Antarctica
Arctic
Oceans
UK Seas and Rivers

Big Question: How can we make the world better?

NUMERACY

Fractions Decimals Measures

Measures linked to STEM and statistics with science.

Data loggers used with electricity, measuring brightness of a bulb.

LITERACY Stig of the Du

Stig of the Dump
Character Description of Stig - 2 weeks

Diary or Narrative - 2 weeks Persuasion test. Children to persuade audience to switch to renewable energy following science investigation - 2 weeks

Half Term

Narrative - 3 weeks

Balanced Argument - Linked to Global Goals Should petrol & diesel cars be banned?

Explanation text - Water Cycle (If needed)

Poetry - Linked to saving the environment

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SCIENCE

identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery recognise

that a switch opens and closes a circuit and associate this with

whether or not a lamp lights in a simple series circuit recognise

some common conductors and insulators, and associate metals with being good conductors. Make Wind Turbines as renewable energy STEM: Making cars with renewable energy

Water Cucle

Recognise that light appears to travel in straight lines
Use the idea that light travels in straight lines to explain that objects
are seen because they give out or reflect light into the eye
Explain that we see things because light travels from light sources
to our eyes or from light sources to objects and then to our eyes
Use the idea that light travels in straight lines to explain why
shadows have the same shape as the objects that cast them
Evaporation and condensation through animation

TOPIC:



Go Green

Links to Stig of the Dump & Floodland YEAR 4 Spring Term Visit: Recycling Centre Local Visit: Litter Picking

Plastic bag models of water cycle.

I Can Animate linked to internet safety . Video for Film Festival.

Data Representation. Spreadsheets & Graphs linked to STEM

GEOGRAPHY

Locating Different Countries
Equators & hemispheres
Pollution linked to countries and statistics/ICT Spreadsheet &

graphs

ART

Pastels

Abstract rubbish/wrappers Textile collage

Using real food items and magazine cut outs Sculpting

Trash to treasure

DT/STEM

Design and make wind turbines linked to science electricity.

Make cars with K'nex and renewable energy, wind powered.

Create drums linked to recycling.

French

School & Weather linked to water cucle

PSHE

R.E. Christianitu

What matters most Code for living and rules Non religious rules

P4C

Completed fortnightly

Nemesis

Pops outdoor classroom

MUSIC

Djembe Drumming Ukulele

Junk Drumming opportunities linked to Stig of the Dump/recycling.