



Lesson Sequence



1. Describe ecosystems and how they are affected by changes in the seasons



2. Understand human impact on the environment through deforestation



3. Explore air pollution



4. Understand water pollution



5. Explore methods that can be used to conserve water



6. Understand that humans can have a positive impact on nature

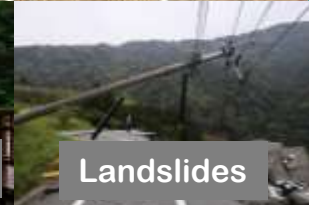
How environments change?



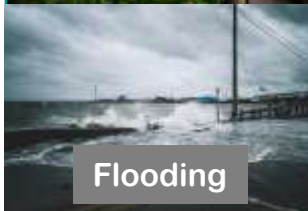
Seasonal change



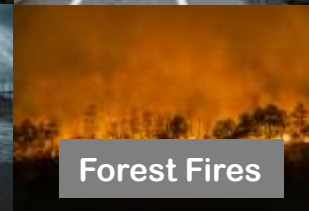
Nature reserves



Landslides



Flooding



Forest Fires



Water treatment Plant



Oil Spills

The water people use in their homes comes from nature and must be cleaned up to be returned to nature so it can be used again. This is an important part of our water cycle.

Why environments change

NATURAL CHANGES – different seasons can change habitats. Greenhouse gases cause climate change and climate change has caused our planet to get a lot warmer over a very short period of time. This has caused more extreme weather events like hurricanes, floods and droughts. It has also caused the extinction of many living things.

HUMAN CHANGES – How humans live and what they do can impact habitats both negatively and positively.

Negative ways:

- Deforestation - cutting down trees for a range of reasons
- Littering – dropping rubbish or leaving large objects lying in the environment
- Pollution – introducing harmful substances into the environment.
- Air pollution from cars, e.g., carbon monoxide, and the burning of fossil fuels.
- Water pollution through industrial waste and farm fertilisers that can pollute rivers and streams.
- Rubbish—Plastic and household waste ends up on the streets, in the sea or in rubbish dumps, destroying habitats and wildlife.

Positive ways:

- Protecting endangered species via conservation projects
- Cleaning bodies of water
- Recycling
- Creating nature reserves

Rocket Words

	migrate	to move from one area to another
	monsoon	rainy season
	deforestation	the cutting down of forests, including rainforests
	biodiversity	the variety of living things
	emissions	the production or discharge of something, especially gas or radiation
	pollution	harmful or poisonous substances
	pesticide	a chemical substance used to kill insects that harm plants and crops
	contaminate	to make something impure by adding a poisonous or polluting substance
	drought	a long period of time where there is a shortage of water
	freshwater	water that does not contain salt
	marine sanctuaries	ocean areas that protect the wildlife from harm
	conservation areas	areas on land or sea that protect the wildlife from harm

What I already know:

Year 2

- ☐ I can explore and compare the differences between things that are living, dead, and things that have never been alive
- ☐ I can identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other
- ☐ I can identify and name a variety of plants and animals in their habitats, including microhabitats
- ☐ I can describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food

What I will learn now:

Year 4

- ☐ I can recognise that living things can be grouped in a variety of ways
- ☐ I can explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- ☐ I can recognise that environments can change and that this can sometimes pose a danger to living things

What I will learn next:

Year 5

- ☐ I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- ☐ I can describe the life process of reproduction in some plants and animals



Knowledge Organiser: Living things and their habitat - Conservation

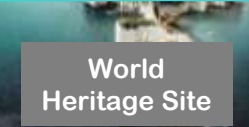





Before and After Test



Which of these is a natural disaster?	before	after
flooding		
forest fire		
building development		
volcano		

Which of these is a man-made disaster?	before	after
oil spill		
water pollution		
rubbish		
recycling		
deforestation		

Write the word of each living thing in the Venn diagram to show where they belong.



Natural disaster

Man-made disaster

	before	after

What has become more frequent thanks to the increase of greenhouse gases?		
	before	after
Forest fires		
Landslide		
Flooding		
Recycling		
Deforestation		
Oil Spills		