



Spring 1						
Living things and their habitats – Conservation						
Prior learning	Year 1 – identification of common animal groups, Year 2 - habitats					
Lesson objective	Describe ecosystems and how they are affected by changes in the seasons	Understand human impact on the environment through deforestation	Explore air pollution	Understand water pollution	Explore methods that can be used to conserve water	Understand that humans can have a positive impact on nature
Key vocabulary	ecosystem Northern Hemisphere Southern Hemisphere migrate monsoon	rainforest deforestation drought biodiversity recycling	fossil fuels pollution greenhouse gases emissions climate change	chemicals sewage contaminate pesticides water treatment plant	conserve drought freshwater pure water butt	endangered marine sanctuaries protect conservation areas recycling
Creative context						
Substantive knowledge	Recognise that environments can change and that this can sometimes pose dangers to living things	Recognise that environments can change and that this can sometimes pose dangers to living things	Recognise that environments can change and that this can sometimes pose dangers to living things	Recognise that environments can change and that this can sometimes pose dangers to living things.	Recognise that environments can change and that this can sometimes pose dangers to living things	Recognise that environments can change and that this can sometimes pose dangers to living things
Disciplinary knowledge	Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.	Using straightforward scientific evidence to answer questions or to support their findings	Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a	Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions



					range of equipment, including thermometers and data loggers	
Recorded learning	<p>Carry out research to find out about the seasons in different parts of the world.</p> <p>How many seasons a country experiences, the types of weather typical for those seasons and facts about the changes to plant and animal life throughout the year.</p>	<p>Create a persuasive text to stop deforestation.</p> <p>Challenge Task: Ensure the children include their ideas about how humans can protect the rainforests.</p>	<p>Air Pollution Catchers</p> <p>Set up cards in 3 different locations such as a road, the back of a car and in a garden or woodland. Record observations through photographs, drawings and sentences. Which environment has the most pollution? Were there any patterns between the level of sound and the amount of pollution?</p> <p>Challenge Task: Discuss which locations are more polluted and explain what contributing factors are likely to make those locations more polluted.</p>	<p>Task 1: Ask the children to complete the table to explain the impact of different kinds of water pollution.</p> <p>Task 2: Write a newspaper report on a natural disaster, such as an oil spill, that has affected the environment. Use research tools such as books or the internet to report on a real life situation.</p>	<p>Watch the Lesson Assignment Film. Complete a water audit. Suggest how the water could be conserved, or saved, on those different occasions. Use findings and ideas to create a water saving display.</p>	<p>Design a conservation area, ocean or land area. Draw a map and give details about the plants and animals that live there. Explain how they will protect the wildlife there.</p> <p>Challenge Task: Create a list of rules for any visitor that comes to the conservation area to ensure their wildlife is being protected.</p>
Future learning	Year 6 – Classification, inheritance and evolution					