Sustainability: Protecting Our Planet

Learning objective: To understand the concept of sustainability and how we can make responsible choices to preserve our world for future generations.

Read each question carefully. Use your knowledge of geography, the environment, and human impact to provide detailed answers. Use the word bank to help you explain your ideas.

Word bank: renewable · fossil fuels · carbon footprint · conservation · biodiversity · sustainability · recycling

1. Finn the dolphin has noticed more plastic in the oceans. Explain what the term 'sustainability' means and why it is important for marine life. (2 marks)

2. Max the monkey is calculating the cost of energy. If a town switches from coal (a fossil fuel) to solar power, explain one long-term environmental benefit. (2 marks)

3. Nova the owl is worried about the loss of habitats. How does 'conservation' help maintain biodiversity in our local forests? (2 marks)

4. Zara the zebra wants to reduce her 'carbon footprint'. List three everyday actions a student can take at school to become more sustainable. (3 marks)

5. A new reusable water bottle costs £8.00, while a pack of 20 single-use plastic bottles costs £4.00. Using the concept of sustainability, explain why the reusable bottle is a better choice despite the higher initial price. (3 marks)

Draw: Draw a 'Sustainable City of the Future'. Include features like wind turbines, green roofs with plants, public transport like trams, and plenty of trees for wildlife.

Extension challenge: Research a local project in your area that focuses on sustainability (such as a community garden, a recycling initiative, or a renewable energy site). Write a short paragraph explaining how this project helps the environment.