

Designing a Sustainable Future with Finn the Dolphin

Learning objective: To understand the principles of sustainability by designing a self-sufficient eco-community that protects natural resources.

Follow the drawing prompt below to create a vision for a sustainable town. Use the word bank to label your features and answer the analytical questions to justify your design choices.

Draw: Create an aerial map view of an eco-friendly town. Use a clean, architectural style. Include a central area with green spaces (gardens), energy-efficient housing with solar panels on roofs, a clean river flowing through the town, and a network of cycle paths. Ensure you include a space for a vertical farm or community allotments. Use labels from the word bank to annotate your drawing.



Label words: Renewable energy · Biodiversity corridor · Rainwater harvesting · Carbon neutral · Local produce · Sustainable transport · Waste reduction

Steps:

1. Explain why incorporating a 'biodiversity corridor' is essential for maintaining a healthy ecosystem within a town.
2. Compare and contrast the use of solar panels versus fossil fuels in terms of their long-term environmental impact.

3. Justify your decision for where to place the 'sustainable transport' hub in your drawing. How does this benefit the community?
4. What might happen if a community relies solely on imported resources rather than 'local produce'?
5. Label your drawing with at least four terms from the word bank to identify the sustainable features you have included.
6. Design a system for 'waste reduction' in your town. Describe how it functions to ensure minimal impact on the local landfill.