



Terramorph

Engaging Question: How do natural disasters shape our world?

Key Knowledge

Natural Disasters Overview:

- **Earthquakes:** Sudden shaking of the ground caused by the movement of tectonic plates. Can lead to building collapses, tsunamis, and landslides.
- **Tsunamis:** Large ocean waves usually caused by underwater earthquakes or volcanic eruptions. Can flood coastal areas and cause significant damage.
- **Hurricanes:** Powerful storms with strong winds and heavy rain, forming over warm ocean waters. Can cause flooding, wind damage, and storm surges.
- **Wildfires:** Uncontrolled fires that spread rapidly through vegetation. Can destroy homes, wildlife habitats, and lead to air pollution.

Causes and Effects:

- **Causes:** Natural disasters are often caused by natural processes such as tectonic plate movements, weather patterns, and human activities like deforestation.
- **Effects:** They can have devastating impacts on the environment, human life, and infrastructure. They can also lead to long-term changes in the landscape and ecosystems.

Preventive Measures:

- **Earthquakes:** Building earthquake-resistant structures, early warning systems.
- **Tsunamis:** Coastal barriers, evacuation plans, early warning systems.
- **Hurricanes:** Strengthening buildings, creating emergency plans, monitoring weather patterns.
- **Wildfires:** Controlled burns, firebreaks, public awareness campaigns.

Learning Activity

Objective: Understand the impact of natural disasters on the environment and human life.

Instructions:

- **Research** different types of natural disasters (earthquakes, tsunamis, hurricanes, wildfires).
- **Identify** the causes and effects of each type of disaster.
- **Take notes** on how these disasters impact the environment and human communities.

Resources Needed:

- Internet access or library resources
- Notebook and pen

Challenge

Challenge Description: Create a model or poster explaining a specific natural disaster and its effects.

Instructions:

- **Choose** one type of natural disaster to focus on.
- **Gather information** and images related to the chosen disaster.
- **Create** a model or poster (minimum A3 size) that explains the causes, effects, and any preventive measures.

Submission Requirements:

- A3 poster or model
- Include a brief written explanation (1-2 paragraphs)

Helpful Tips

- Use colourful images and diagrams to make your poster/model more engaging.
- Highlight key facts and figures to make your explanation clear.