



Year 4 Knowledge Organiser – 3. Extreme Weather

In this thrilling Year 4 Geography unit, get ready to explore the wild wonders of our planet in the Extreme Earth lessons! Join us as we delve into the Earth's extremes, from the power of raging tropical storms to the awe-inspiring eruptions of volcanoes and the immense force of towering tsunamis. Through a series of engaging and thought-provoking lessons, we will uncover how these extreme phenomena impact the lives of people, communities, and landscapes. Let's embark on this exciting journey and discover the incredible forces that shape our world!

Key words	
Extreme	Phenomena
Natural disasters	Climate
Weather patterns	Geographic features
Adaptations	Human impact
Preparedness	Resilience

Six Key areas of Learning

Extreme Phenomena	Geographic Features	Climate and Weather
Explore powerful natural events like storms, eruptions, and tsunamis.	Study unique features associated with extremes, such as mountains and volcanoes.	Examine the connection between extreme events and climate patterns.
Human Impact	Environmental Adaptations	Resilience and Preparedness
Learn how extremes affect people, communities, and landscapes.	Investigate how organisms adapt to extreme environments.	Understand the importance of readiness and coping with extreme events.

The layers of the Earth

crust
mantle
outer core
inner core

volcano
lava
magma

earthquake

Tropical Storms
typhoon
hurricane
cyclone

condensation
precipitation
transpiration
evaporation

The Water Cycle

tsunami

drought

tornado

blizzard

Extreme Earth
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Post assessment

Task 1: Vocabulary Challenge

Match the following vocabulary terms related to Extreme Earth with their corresponding definitions:

Tsunami A		Violent shaking of the Earth's surface caused by tectonic activity.
Volcano B		Sudden and powerful ocean wave triggered by seismic activity.
Tornado C		Large-scale weather system characterized by rotating columns of air.
Blizzard E		A mountain or hill with a vent through which molten rock, ash, and gases erupt.
Earthquake D		Severe winter storm with strong winds, low temperatures, and heavy snowfall.

Task 2: Extreme Earth Preparedness Plan

Imagine you live in an area prone to extreme Earth events. Develop a preparedness plan that outlines the steps you would take to ensure the safety of yourself and your family in the face of such an event. Include measures for communication, evacuation, emergency supplies, and post-event recovery.