

## Entry Task

Create a piece of volcano inspired 'big' art recapping on the abstract style of Kandinsky.  
Can pupils feel inspired by the process of eruption?



# Extreme Earth



## What to revisit?

Y1 Extinction of the dinosaurs

Y2 Where can seeds grow? Will any soil do?

Y2 Builds on understanding of continents and oceans

## Vertical Threads

Climate, resistance, extinct, settlement, friction, humanity, exploration

## Big Question

What is our planet made of? How do we know?

Can I **explore** and explain through diagrams and writing what the inside of the Earth is like?

Can I research and explain (verbally and written) why volcanoes erupt and what do they look like on the inside?

Why do some volcanoes explode so violently? Can I design a fair test to demonstrate an explosion?

What are the differences between active, dormant and **extinct** volcanoes?

Can I locate the UK and countries which have volcanoes in them on a world map? How is the **climate** different to Naples?

How did Mount Vesuvius destroy the **humanity settlement** at Pompeii? Can I describe the events using appropriate vocabulary in a geographic report making reference to Pliny the Younger?

What are tectonic plates? How do they join together to form the Earth's crust?

How does **friction** caused by the movement of tectonic plates, cause earthquakes?

Can I find out how soil is formed and what it is made of?

Can I perform a fair test to show how various soil types have different permeability?

What happens when rocks are rubbed together causing **resistance**? What changes occur when they are in water?

Using research can I find out why fossils are generally formed only in sedimentary rocks? **Investigation** How do **fossils form**?

Using atlases can I find The Ring Of Fire? What do I notice? Why might this be?

Using careful observation and a key can I sort Igneous, metamorphic and sedimentary rocks?

Can I **explore** how the movement of tectonic plates form mountains?

Using careful observation, can I sort man made and natural rocks?

What is a Tsunami and how are they caused? What damage can they cause to **settlements**?

What are tomadoes and how are they caused? In what **climate** do tomadoes happen across the world?

## Celebration/Evaluation

Children will create and label diagrams of aspects studied (Earth, volcanoes, earthquakes etc) to demonstrate their learning.

## Curriculum Passport Challenge

Children will investigate a geological disaster in school and partake in a simulation of a journey to the centre of the Earth.

## Key Vocabulary

**As a geographer, I will use...** volcano, Earth's core, climate, earthquake & Ring of fire, vegetation, soil, equator, globe, environment, volcanic soil, fertile, tectonic, fault line, epicentre, eruption, column, richter scale, vent, seismic wave, Tsunami, mantle, plate, active, after shock, amplitude, core, crater, dormant, Mediterranean, eruption, extinct, high/low pressure, farming,

**As a scientist, I will use...** Rocks, extinction, igneous, metamorphic, sedimentary, palaeontologist, weathering, molten rock, crust, tectonic plates, scavengers, fossil, decay, matter, observation and fair test.

DRIVER SUBJECTS ARE GEOGRAPHY &

SCIENCE