

# Willow Tree Academy

Extreme Earth

Year 5 and 5/6

Strand: Geography

Key Dates

Key Knowledge

**1815**- Mount Tambora eruption.  
**1839**- Coringa cyclone.  
**1900**- Great Galveston Storm.  
**1931**- China floods  
**1970**- Huascarán avalanche.  
**1986**- Lake Nyos eruption.  
**2004** Indian Ocean earthquake and tsunami  
**2005**- Kashmir earthquake  
**2008**- Sichuan earthquake.  
**2017**- Hurricane Maria.  
**2010**- Haiti earthquake.  
**2019/20**- Australia wildfires.  
**2023** Turkey-Syria earthquakes.

**Volcanoes** are made when pressure builds up inside the earth. This affects the earth's crust causing magma to sometimes erupt through it.

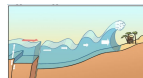


Active volcanoes have erupted in the last 10 000 years.

Dormant volcanoes haven't erupted in the last 10 000 years but may erupt again.

Extinct volcanoes aren't expected to erupt again.

**Tsunamis** are a giant wave caused by a huge earthquake under the ocean.



- The earthquake causes a large amount of water to be displaced very quickly causing a series of waves.

- As the waves travel through shallow water near land, they get bigger and bigger. The wave crashes onto the land causing devastation to buildings and sometimes even lives.

**Tornadoes** are a swirling funnel of air that forms when warm air rises from near the ground into big cumulonimbus clouds.



- There can be thunder and lightning at the same time.
- You can see tornadoes due to the dust and water droplets caught in the clouds.
- Storm chasers are film-makers and scientists who head towards the storms. They film the tornadoes and collect data about them.
- Most tornadoes happen in Tornado Alley in America -more than 500 each year.
- Tornadoes can happen in the UK but only around 30 per year.

**Earthquakes** Earthquakes are caused when the earth's tectonic plates suddenly move.

- Most earthquakes occur near the tectonic plate boundaries.
- Earthquakes can cause lots of damage to Roads, buildings and property.



Key Vocabulary

**Magma chamber:** A reservoir (large body of liquid) of magma within the earth's crust beneath a volcano.

**Fissures:** A long, narrow opening or line of breakage made by cracking or splitting, especially in rock or earth.

**Pyroclastic flow:** A destructive mass of very hot ash, lava fragments, and gases ejected explosively from a volcano and typically flowing at great speed.

**Pumice:** A light, porous volcanic rock formed when lava cools.

**Epicentre:** The central point of the origin of the earthquake

**Aftershock:** A smaller earthquake that happens after, and because of, a larger earthquake.

**Richter scale:** Developed by Charles Richter in 1935, it is a scale of levels from 0-10 used to measure the strength of an earthquake. Each level is ten times more than the level before it so level 4 is ten times greater than level 3.

**Tectonic plates:** Sections of the earth's crust which are like huge jigsaw pieces.

**Tsunami:** A massive sea wave brought on by an undersea volcanic eruption or seaquake.

**Vortex:** The whirling motion of liquid or gas around a central axis

## Literacy

Explanation text - natural disasters  
Class book - collaborative

Balanced argument - reasons to live in an area susceptible to natural disasters  
Storm chasing: is it worth the risk?

Newspaper/recount of Rotherham floods

River poetry

## Immersive Reading Text

Weather Weaver by Tamzin Mori



## Maths

### (Following White Rose Maths Scheme of work)

- Shape
- Position and Direction
- Decimals
- Negative Numbers
- Converting units
- Volume

## Computing

Online Safety and Scratch Coding.

## History

Natural Disasters in History

## Geography

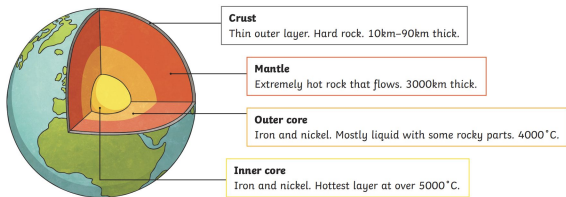
Data around natural disasters  
Floods and floodplains

## Science

### Animals including humans

Lifecycles  
Reproduction  
Environmental change  
Animals and their environment.

## Big Question - What is the impact of our changing world?



## PE

Spring Term 1 - Athletics  
Spring 2 - Netballs

## Music

Instrumental lessons  
Identifying important musical elements.  
Understanding how music connects us with the environment?  
Music appreciation response, improvisation/singing  
28.6.23 - One Voice performance for schools that are involved.

## Art & Design

- Sketchbook work linked to working with different medias  
- 3D Art

## DT/STEM

- Mechanisms  
- Volcano challenge: Design and make a functioning volcano

## PSHCE/RHE

### PSHE

- First Aid, Safety and diversity

### RHE

- How do we keep safe?

## MFL

Weather  
Days of the week  
Months of the year

## RE

Islam  
- Revisit the 5 pillars  
- A muslims special place.