Term 5 Week 4 – River Deep, Mountain High

COMPLETE IN ANY ORDER YOU WANT - Choose 1 challenge to research each day to build a case study about Earthquakes!

<table>
<tr>
<td>Challenge 1

Research the 2011 earthquake in Tohoku on:

en.wikipedia.org/wiki/2011_Tohoku_earthquake_and_tsunami

Answer questions on worksheet 1

 
</td>
<td>Challenge 2

 

Earthquake Vocabulary

Can you find the definitions? Maybe create aboard game or a poster to help you learn them?</td>
<td>Challenge 3

What are earthquakes?

Research and/or read what earthquakes are and where they are located.

Build/draw or write a description for your own earthquake proof building.

What is it built of? How does it react to an earthquake? What advice could people take if there is an earthquake?</td>
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<td>Challenge 4 :

Write a rap, poem, song, powerpoint presentation or script about Earthquakes.

Can you make it rhyme? Add alliteration? Similes? Metaphors or Personification?

If you are stuck – try an acrostics poem.</td>
<td>Challenge 5 – P.E

Lets get active!

 

Try and do some form of physical exercise every day this week. It could be the golden mile around your living room, an obstacle course in the garden, walking your dog for 20mins a day, PE with Joe Wicks.

Write a log for what you have done and how long you completed each activity.</td>
<td>Resources to help you

Oddizzi.com

Log on details are:
Oak WB
Maple WB

Password:
MapleWB
OakWB1</td>
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Challenge 1 – Earthquake case study

2011 Tohoku Fact File

Your tasks:

- Using the internet to help you, complete this fact file on the 2011 Tohoku Earthquake that struck in Japan.

When

Date _____

Time _____

Duration of quake _____

Size

Magnitude _____

Aftershocks _____

Tsunami height _____

Human toll

Deaths _____

Injured _____

Missing _____

Financial toll

Estimated cost of the earthquake _____

Aerial view of tsunami damage in Sendai with black smoke coming from the Nippon Oil refinery.

Where

Depth _____

Latitude & Longitude _____

_____

Mark on this map the location of the epicentre.

Tsunami

Time taken to arrive _____

Maximum height _____

Distance travelled _____

Places hit by the tsunami _____

_____

_____

_____

Damage to homes

Homes destroyed _____

Homes ½ destroyed _____

Homes part destroyed _____

Homes without power _____

Homes without water _____

- aftershock
- crust
- disaster
- earthquake
- epicentre
- faults
- focus
- hazard
- landslides
- liquefaction
- magnitude
- Plate boundary
- Ring of fire
- Richter scale
- Seismograph
- tsunami

Challenge 2 – Earthquake Vocabulary

Can you find the definitions and then a creative way to help you learn them?

Challenge 3 – What are earthquakes?

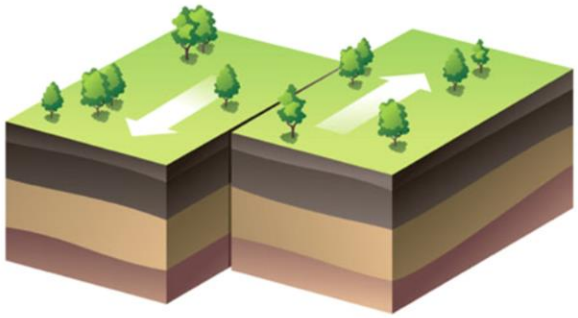
How long does an earthquake last?

An earthquake can last for just a few seconds – and might not do too much damage – but could last for several minutes. Violent shaking for several minutes, or a series of shorter, more powerful shakes, can cause even the tallest skyscraper, or strongest bridge, to collapse in a pile of rubble.

Design an earthquake proof building. What is it built of? How does it react to an earthquake? What advice could people take if there is an earthquake?

WHAT IS AN EARTHQUAKE?

An earthquake happens when two of the Earth's giant plates suddenly slip past each other, snap, crack or make other rapid movements.



Two plates slowly grind past each other View fullscreen

Shock waves of energy spread out from the focus of the quake (the plac where the slip or snap occurred). It's this sudden movement that causes the earth to shake. The shaking is an earthquake!

Earthquakes occur because the Earth's plates are always on the move, grinding over, under or against one another. As they do this, the friction between them may cause them to get stuck – the rocks lock together.