

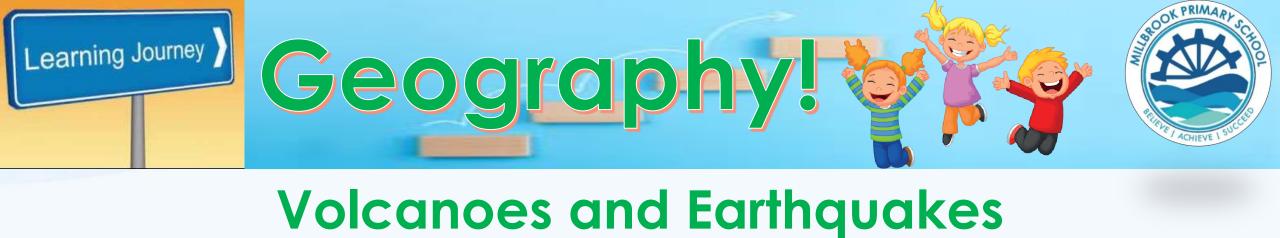


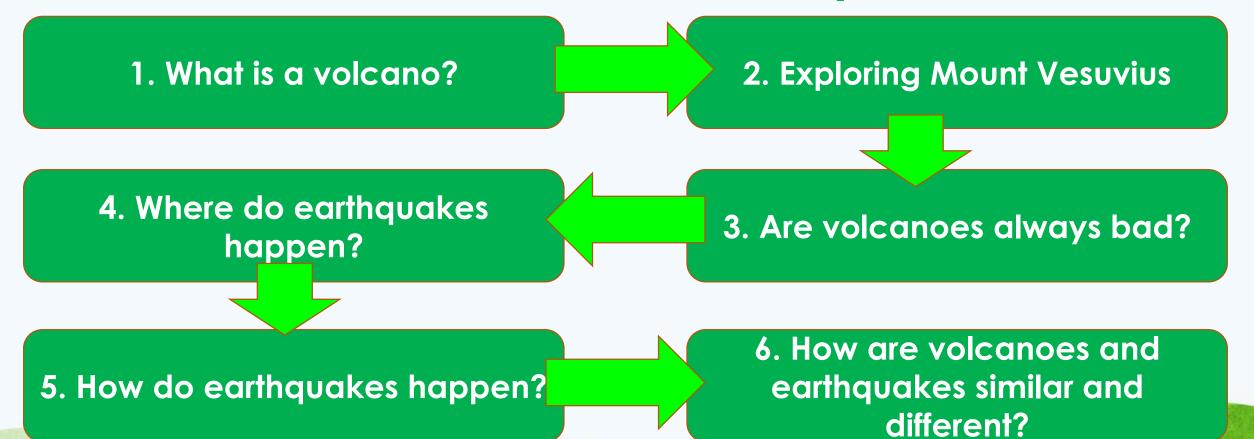


We are learning to

# How do earthquakes happen?









# divergent convergent

# transform

# boundary





Question 1

# Where in the world are threequarters of the world's active volcanoes found?



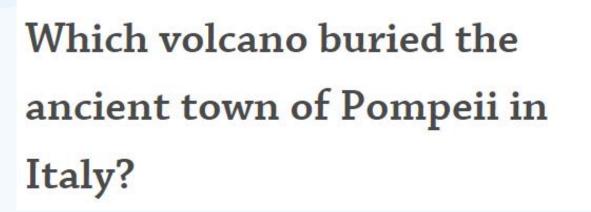


On the tops of mountains Three quarters of the world's volcanoes are actually underwater.

Next Question >

2

Recap - use your cards to answer







Mt Etna

Mt Vesuvius erupted in the year 79 CE and buried the ancient Roman towns of Pompeii and Herculaneum.

Next Question >



Recap - use your cards to answer

#### What is a dormant volcano?

1

A volcano that has erupted recently A volcano is considered dormant, or sleeping, if it has not erupted in recorded history.

Next Question >





## How do earthquakes happen?



So, last lesson we looked at what earthquakes were and where they occur.

Today, we will explore how and why earthquakes occur.

https://www.3dgeography.co.uk/earthquakes







## How do earthquakes happen?

The Earth's crust is cracked into pieces called 'Tectonic plates'.

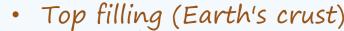
These plates move around. In some places they move apart from each other (1) and in other places, they move together (3). It is these movements that are felt on the surface and can vary in size.





## Your task - all you will need is an Oreo!





- Top filling (Earth's crust)
  Middle filling (upper mantle)
- Bottom filling (lower mantle) •



- Remove the top filling •
- Snap this in half •



### 3 boundaries that will be shown.



2

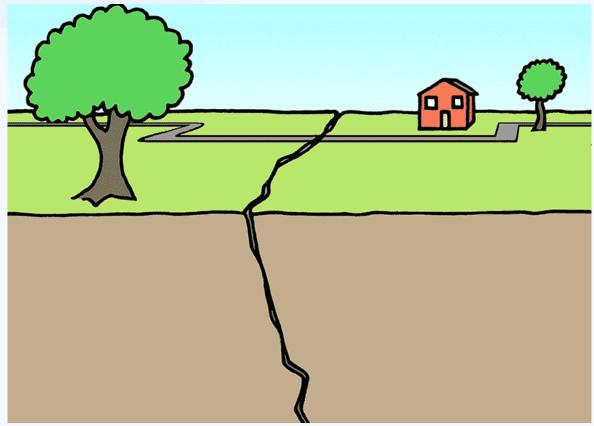
3

1

Divergent boundary
 Convergent boundary
 Transform boundary







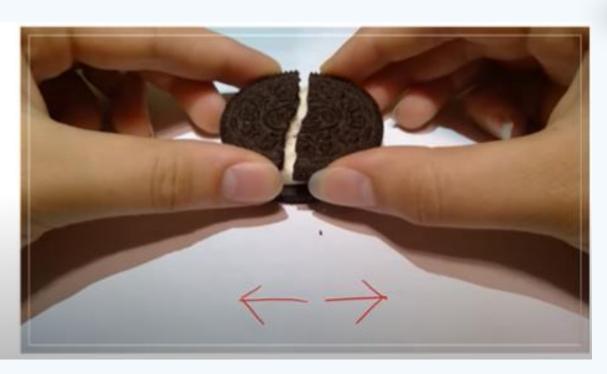


# 'Diverge' means 'separate from each other'





- A divergent boundary is when two Tectonic plates move away from each other.
- This causes the crust to widen and can create rivers, lakes, and volcanos to form.
- Divergent boundaries can also create ocean basins.

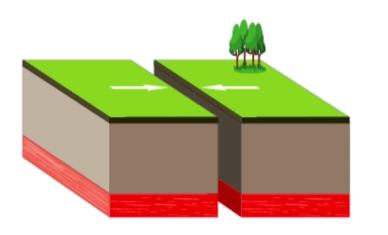


Have a go with your Oreo



Convergent boundary

### **Convergent Boundary**



CEA CALIFORNIA EARTHQUAKE AUTHORITY~

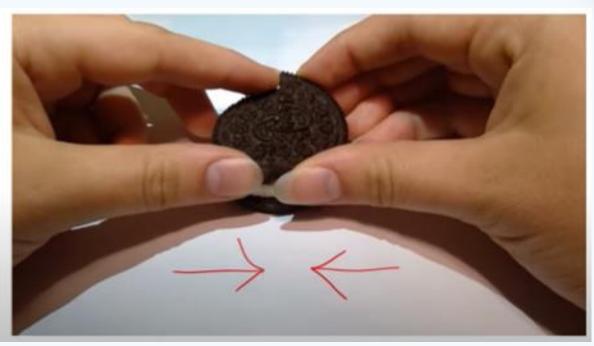


'Converge' means 'come together'



Convergent boundary

- A convergent boundary is when two tectonic plates move toward each other.
- One plate descends below the other plate creating a subduction zone.
- Convergent boundaries create mountain ranges and costal volcanic mountains.



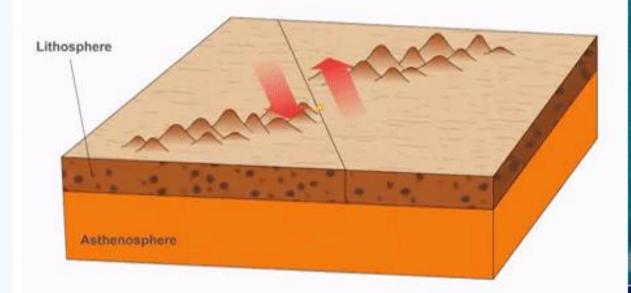
Have a go with your Oreo

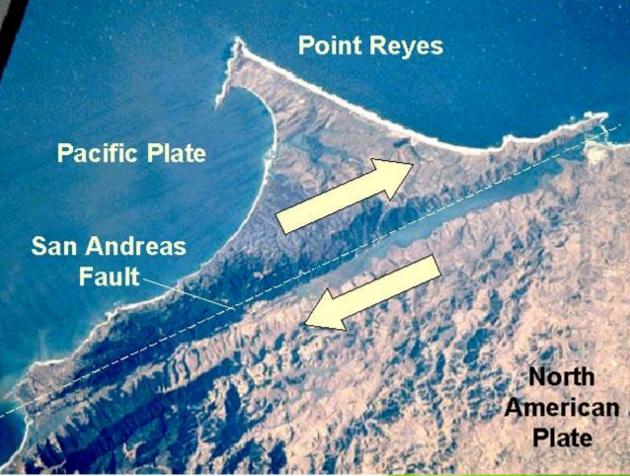




### **Transform Boundaries**

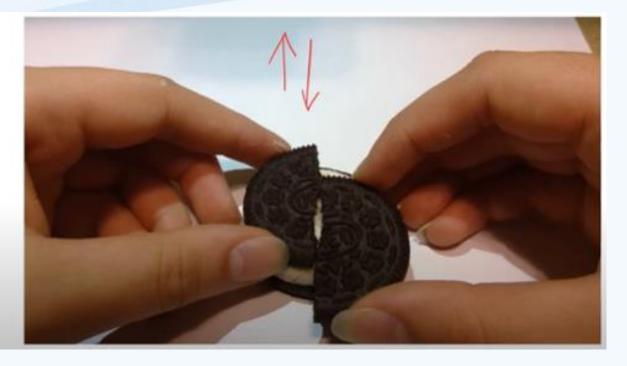
Earthquake





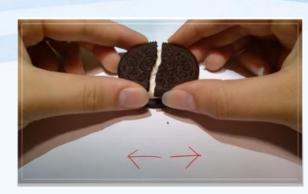
## Transform boundary

- A transform boundary is when two Tectonic plates slip past each other.
- The scrapping of the two plates causes Earthquakes.
- The lithosphere is neither created nor destroyed. There for, no new land for is created.



Have a go with your Oreo

### Test your knowledge





Choose a boundary and your partner must explain the impact of this type of boundary

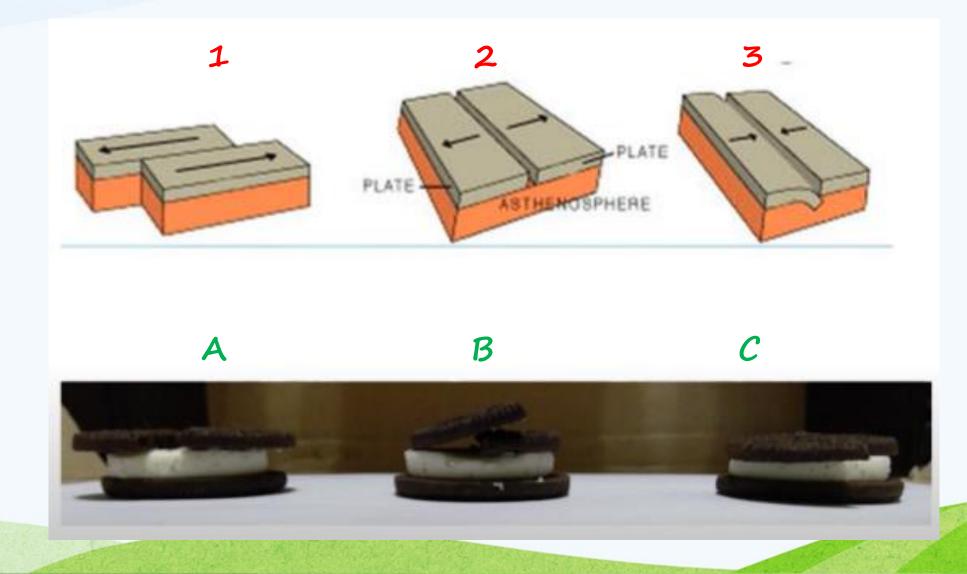


E.g., you have chosen a divergent boundary, and this is where rivers can be formed





# In conclusion, match the boundaries



### What can we remember as a class?

https://wordwall.net/resource/13634925/geography/types-of-plate-boundary

