

How do earthquakes shape our world?

GEOGRAPHY SUMMER WEEK 4 (SCHOOL CLOSURE
WEEK 6)

Look at the following images. Think back to our work in Year 3 on volcanoes. What do you think has happened to cause these land formations?









Complete this BBC activity

<https://www.bbc.co.uk/bitesize/topics/z849q6f/articles/zj89t39>

What is an earthquake?

An earthquake is a shaking or shock of the Earth's surface



What causes an earthquake?



The world is like a jigsaw.



Earth is made up of tectonic plates

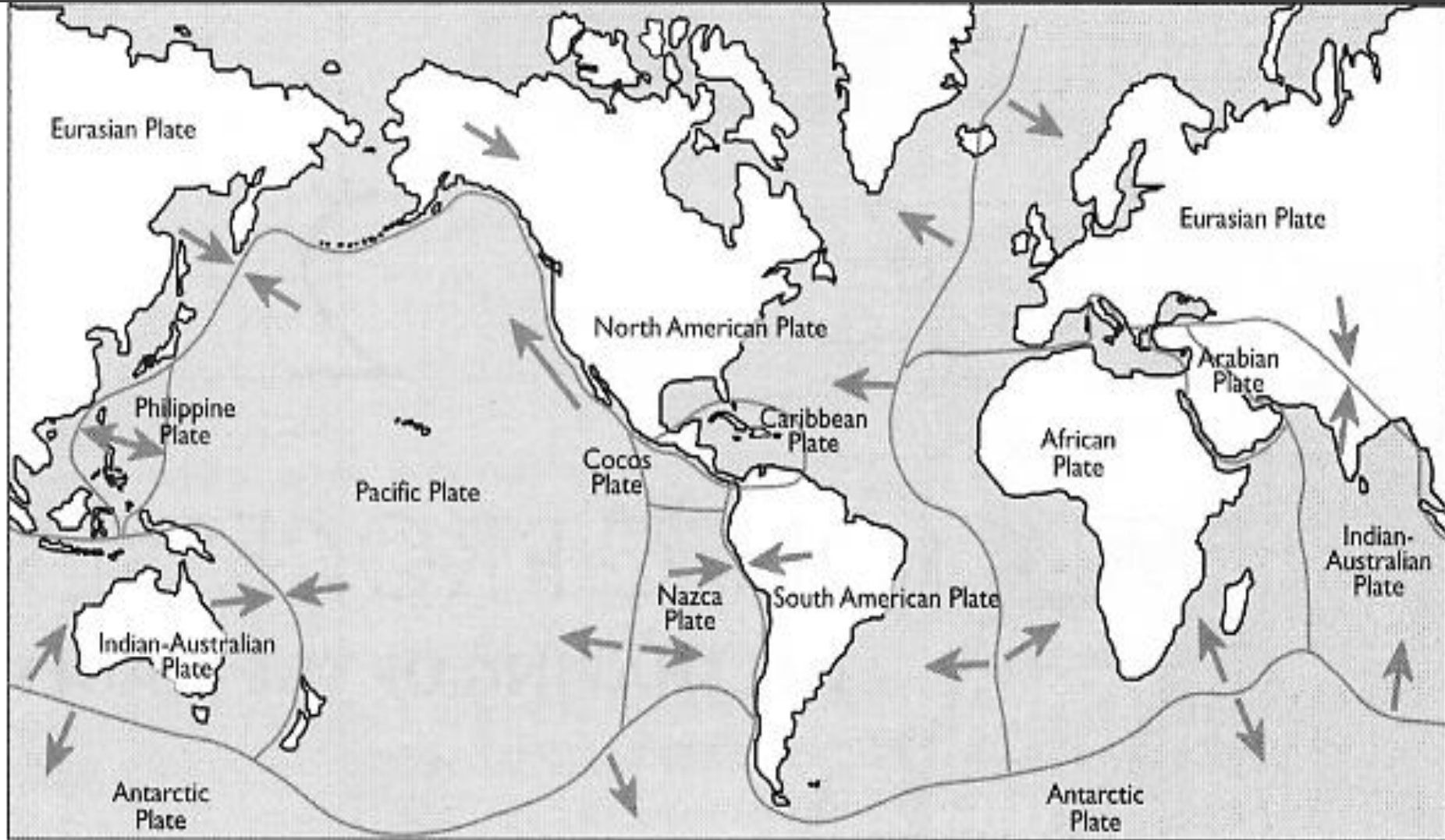
Earth's Tectonic Plates



Tectonic plates



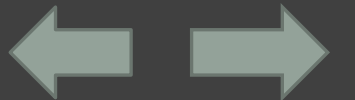
More moving tectonic plates



How tectonic plates move

Plates can

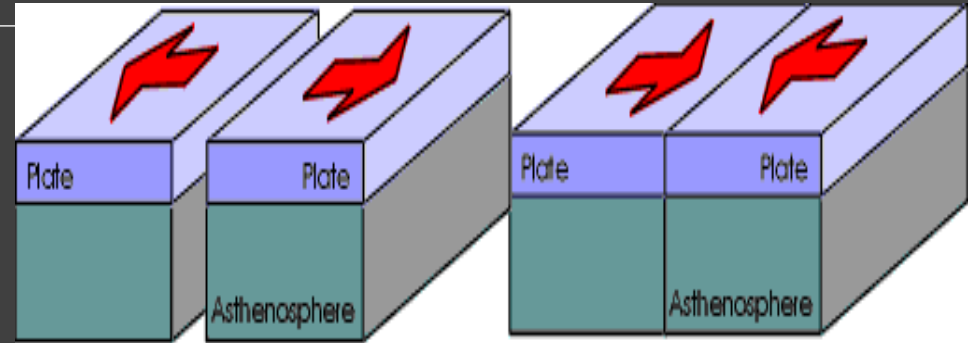
diverge



converge

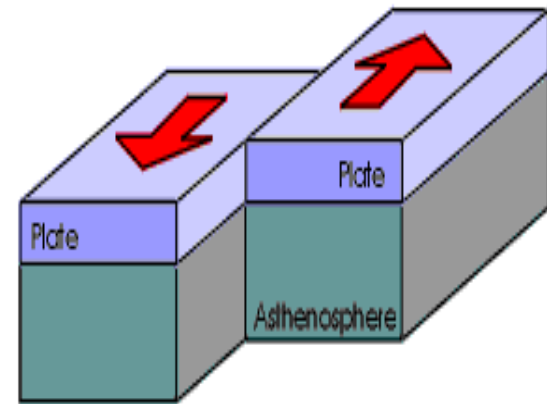


transform



Divergent

Convergent

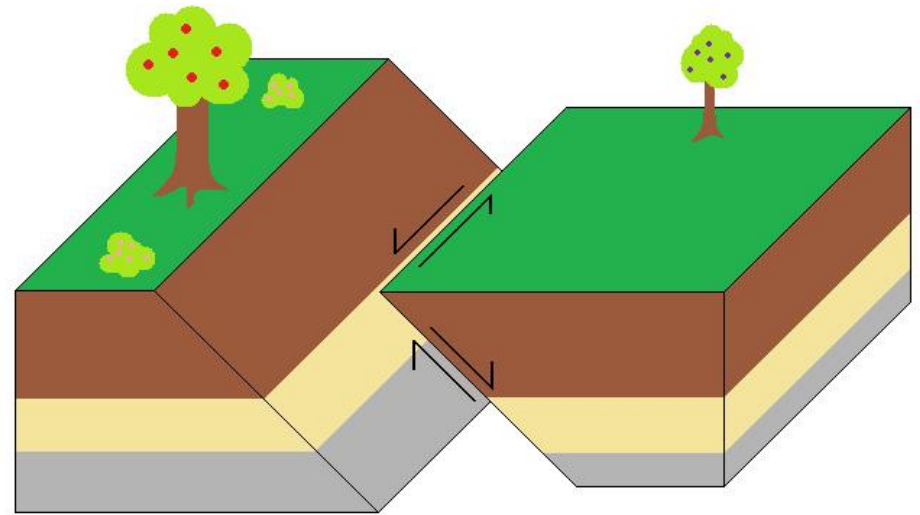


Transform

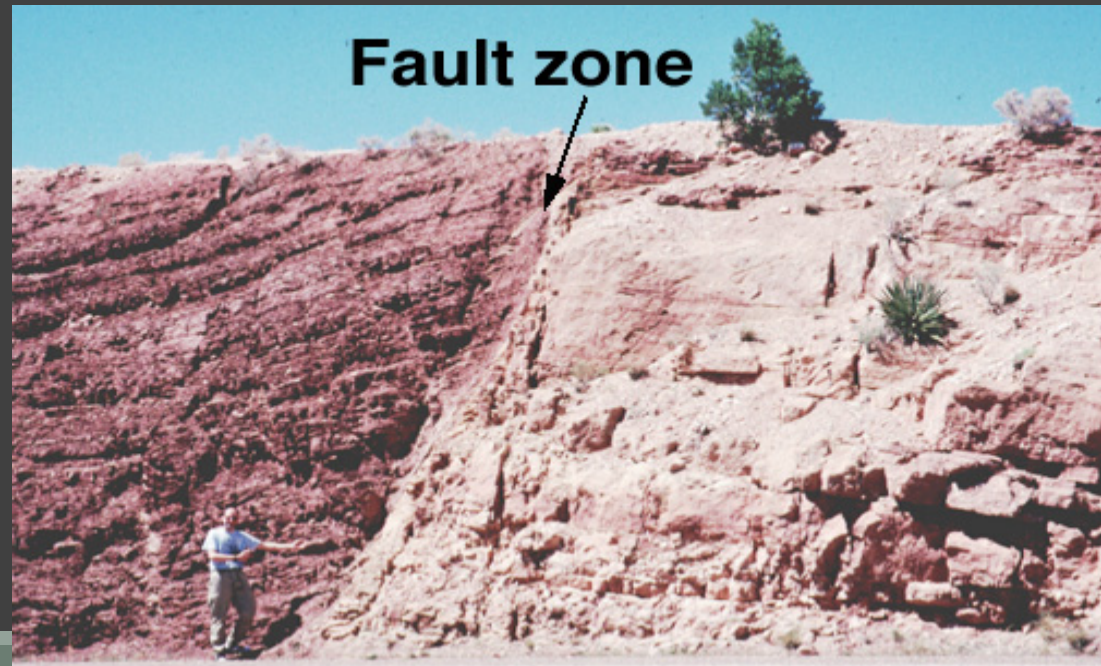
Fault line

As the plates try to move stress and friction builds up.

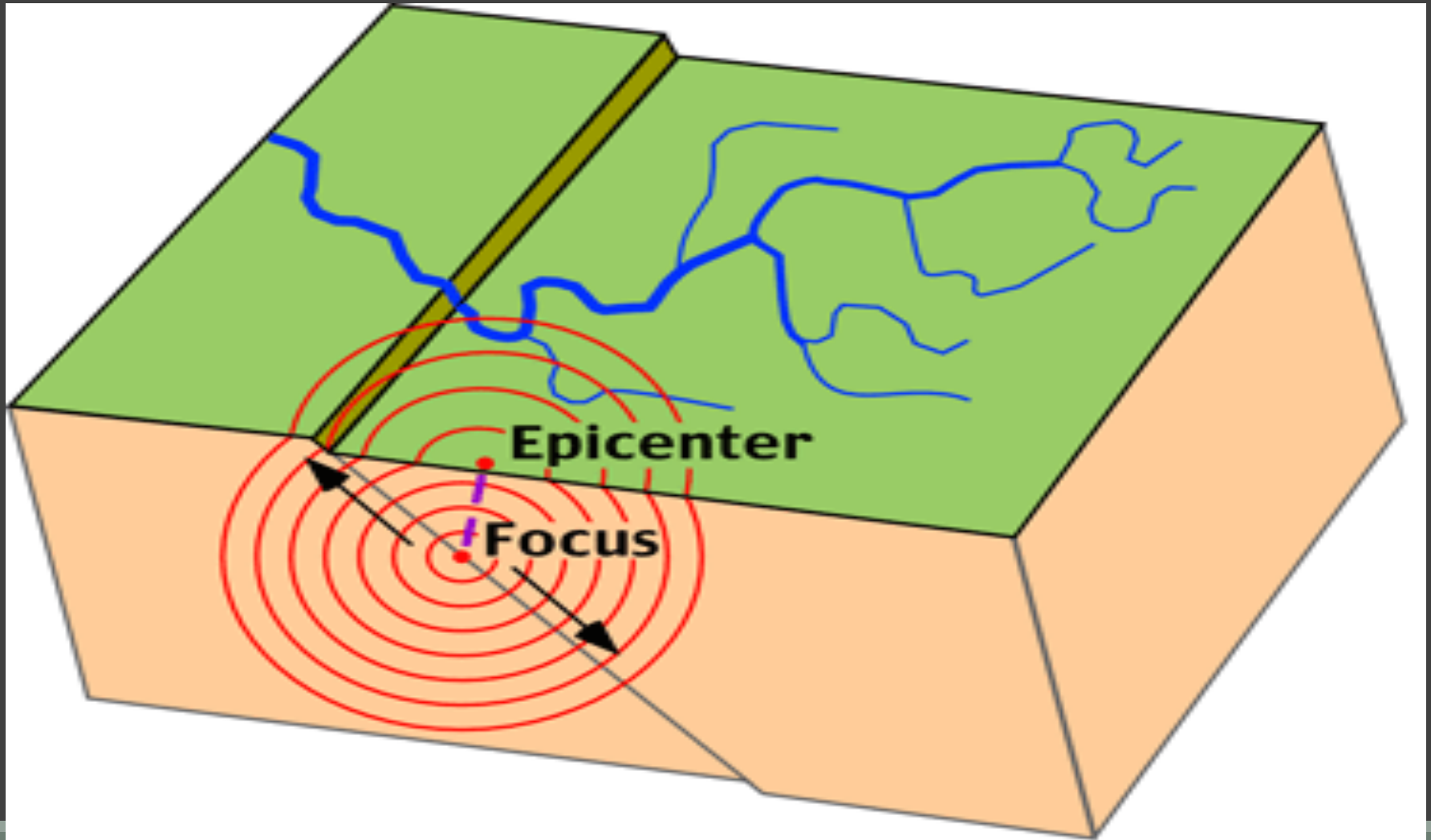
This can cause a fault line.



Oblique-slip fault: Arrows represent relative movement.



Seismic waves travel through the earth.

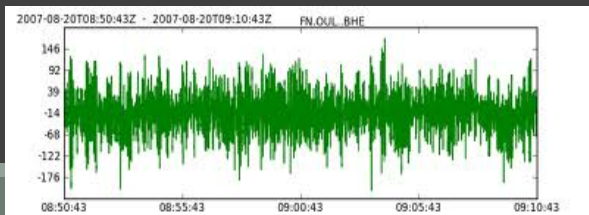
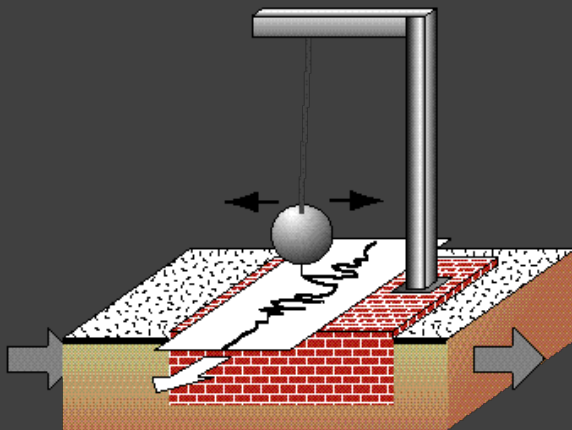


How are earthquakes measured?

Seismologists

Seismometers

Richter scale



What is the Richter scale?

0-2.0	2.1-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-10
Not measured, not felt	Measured, but not felt	Sometimes felt, no damage caused	Light shaking of items, little damage, if any	Slight structural damage possible	Potential for destructive tremors	Serious damage over large areas	Devastating damage over huge areas	Extreme destruction

SOURCES: U.S. Geological Survey