

An illustration of a forest scene. In the foreground, a large, deep, jagged crack runs diagonally across a green grassy field. The crack reveals dark brown soil and has several vertical fissures. In the background, there are several tall, thin trees with light-colored bark and green foliage. The sky is a pale blue. The word "Earthquakes" is written in large, white, bold letters with a black outline, centered over the crack.

Earthquakes

Now look at the PowerPoint slides number 5, 6, 7. Use two pieces of paper to show how the plates move.

Your Task

Write a title in your book and underline with your ruler:

How Does an Earthquake Occur?

Split your page into four boxes with your ruler.

Label them 1. 2. 3. 4.

Draw the process of an earthquake occurring. For example:

1. Draw the Earth's crust around the Earth.
2. Draw the tectonic plates on the earth (like your broken eggshell!) Label with arrows pointing in the direction they move towards each other.
3. Draw building and homes shaking with tremors.
4. Draw a large, destructive wave called a tsunami.

Label your pictures. Well done! Post your work on Seesaw.

The Earth's Crust

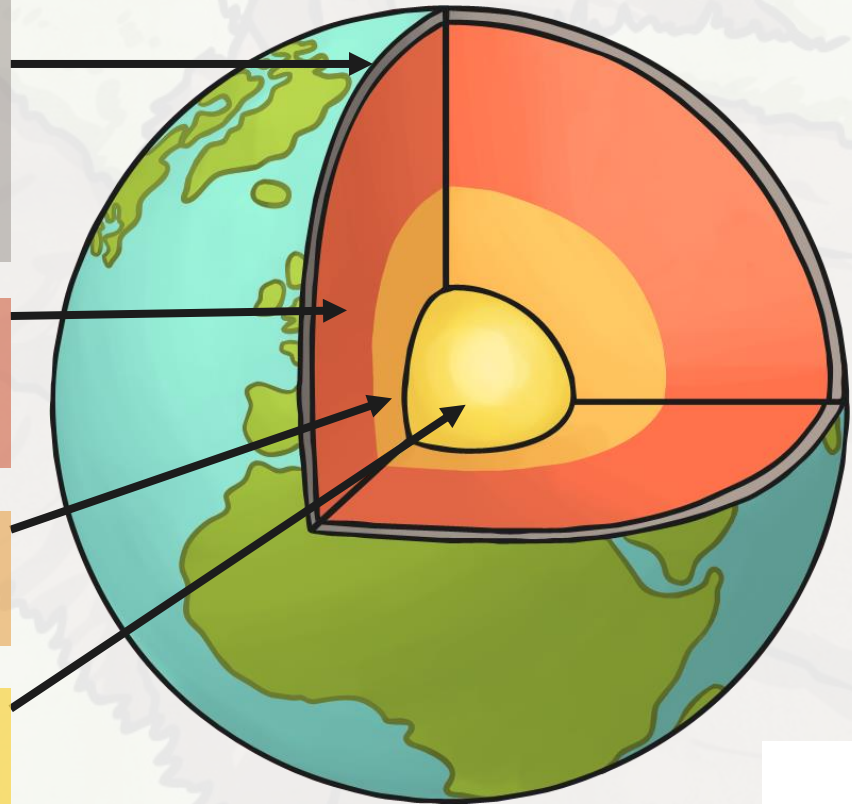
The Earth has four layers:

The crust: This is the outermost layer. The land we stand on is not just one solid piece. It is made of many pieces called plates. These plates fit together like puzzle pieces.

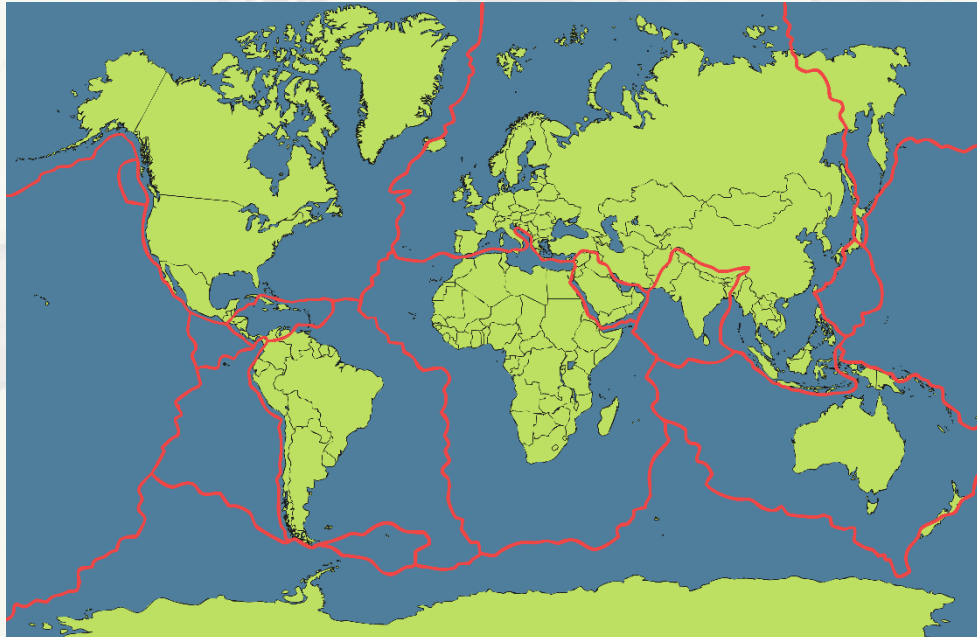
The mantle: This the widest part. It is extremely hot and is consists of semi-molten magma.

The outer core: This area is made of iron and nickel. It is very hot!

The inner core: This is the warmest layer. Temperatures can reach 5,500°C.



The Earth's Plates



The Earth's plates are always moving. They move so slowly that we usually can't feel it.

The edges of plates are called faults. Faults can rub together, push toward each other, or pull away from each other.

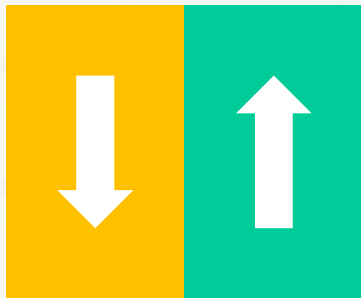
Have a look at the Earth's plates. What do you notice about where New Zealand is?

How Can You Move Your Plates?

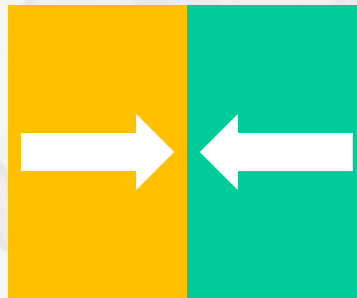
Use two pieces of paper to represent the Earth's plates.

Can you remember the different ways the plates move around?

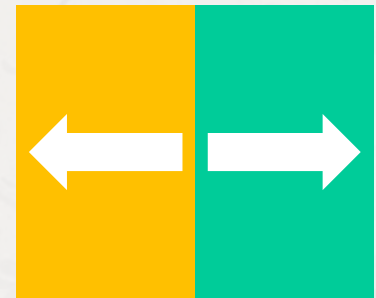
Rubbing together



Towards each other



Away from each other



This kind of movement causes earthquakes.