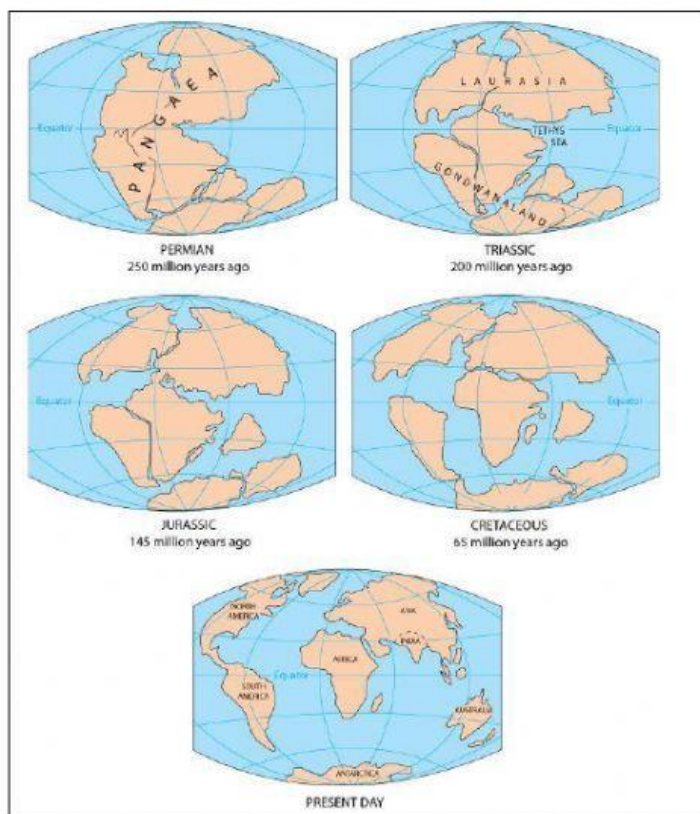




## THE ORIGINS OF THE SEVEN CONTINENTS

Did you know that...

About 300 million years ago, Earth didn't have seven continents, but one massive supercontinent called **Pangaea**, which was surrounded by a single ocean called **Panthalassa**?

The explanation for Pangaea's formation was explained by the modern theory of **plate tectonics**. Plate Tectonics explains that the Earth's crust is broken into several plates that move over the mantle.

It also explains EARTHQUAKES.

Watch DOCTOR BINOCS video "What is an Earthquake?" and answer the questions.

1. How many tectonic plates are approximately there on the Earth's Surface?  
There are approximately \_\_\_\_\_ plates.
2. How do earthquakes occur?  
When they \_\_\_\_\_, \_\_\_\_\_ or \_\_\_\_\_ past another plate.
3. How do you call the Surface where these plates slip?  
They are called \_\_\_\_\_ or \_\_\_\_\_ plate.
4. When do you think earthquakes happen?  
They happen \_\_\_\_\_. Sometimes we cannot feel them, but other times we can feel them although they have happened many kilometres away.
5. What is the hypocentre?  
It is the place where \_\_\_\_\_.
6. What is the Epicentre?  
It is the place where it occurs \_\_\_\_\_.
7. How do scientists measure the intensity of an Earthquake?  
They measure it with the help of a \_\_\_\_\_.
8. Why do Tsunamis occur?  
They occur because there is an \_\_\_\_\_.