

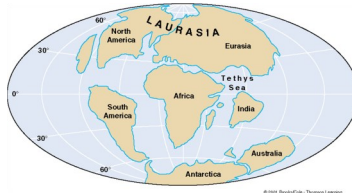
# Continental Drift and Seafloor Spreading

EQ: What are the theories of continental drift and plate tectonics?

What is the theory of continental drift?

In the early 1900's \_\_\_\_\_ proposed the hypothesis that continents were once \_\_\_\_\_ together in a single large land mass called \_\_\_\_\_.

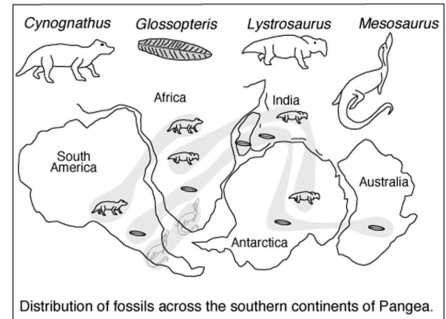
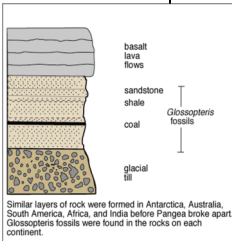
He \_\_\_\_\_ the \_\_\_\_\_ of **Continental Drift** which states that the continents have \_\_\_\_\_ to their current location



\_\_\_\_\_ yrs ago                      \_\_\_\_\_ yrs ago                      \_\_\_\_\_

**What is the evidence for continental drift?**

1. the continents fit together like a \_\_\_\_\_
2. \_\_\_\_\_: the **fossils** of plants and animals of the same species were found on different continents
3. \_\_\_\_\_: He noticed mountain chains matched up on the continents
4. \_\_\_\_\_ layers on different continents show \_\_\_\_\_



What was the problem with theory of continental drift

One reason scientists had a problem with Wegener's theory was that there was \_\_\_\_\_ for the \_\_\_\_\_.

He could not explain \_\_\_\_\_ the \_\_\_\_\_ moved.

Other Questions/Problems:

- why can't we \_\_\_\_\_ the movement?
- Are they still moving \_\_\_\_\_?
- Wegener was only a \_\_\_\_\_

What is the theory of sea floor spreading?

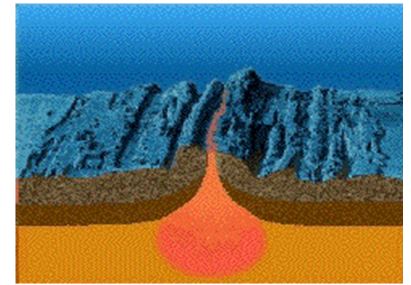
In the \_\_\_\_\_ a scientist named \_\_\_\_\_ made a discover to support \_\_\_\_\_s theory.

It was believed that the bottom of the ocean was \_\_\_\_\_ and \_\_\_\_\_. \_\_\_\_\_ after WWII helped us \_\_\_\_\_ the bottom of the ocean. They found \_\_\_\_\_ and \_\_\_\_\_.

As the sea floor \_\_\_\_\_ at mid ocean ridge, new sea floor is created.

The \_\_\_\_\_ sea floor moves away from the \_\_\_\_\_ in \_\_\_\_\_ directions

This helped explain how the \_\_\_\_\_ could \_\_\_\_\_.



**What is the theory of plate tectonics?**

Scientists \_\_\_\_\_ the theory of sea floor \_\_\_\_\_ and continental \_\_\_\_\_ into 1 theory: \_\_\_\_\_

The theory of Plate tectonics: The \_\_\_\_\_ and part of the \_\_\_\_\_ are broken into \_\_\_\_\_ called \_\_\_\_\_ which \_\_\_\_\_ on the soft \_\_\_\_\_.

**Summary:**

1. What is the theory of continental drift

**These will be on the required exit quiz in edmodo**

1. What 4 types of Evidence did Wegner use to support his theory of continental drift?

2. What was the main reason his theory was not accepted?

3. New technology lead to the development of a new theory that help support continental drift. What was the name of the new theory

4. Scientists combined the 2 theories and came up with a 3rd theory called Plate Tectonics. Describe the theory of plate tectonics.

5. Why do you think the old theories are not thrown out when the new theory of plate tectonics was developed?

5. How do you think convection currents in the mantle play a role in plate tectonics?