

Name _____

Hour _____

EARTH LAYERS

Source Website: https://www.ducksters.com/science/composition_of_the_earth.php

Directons: **READ** the website, answer the questions, and draw a model below.

3) What are each of the layers made of?

1.) Draw a model of Earth's Layers in the box below.

2) Label each layer.

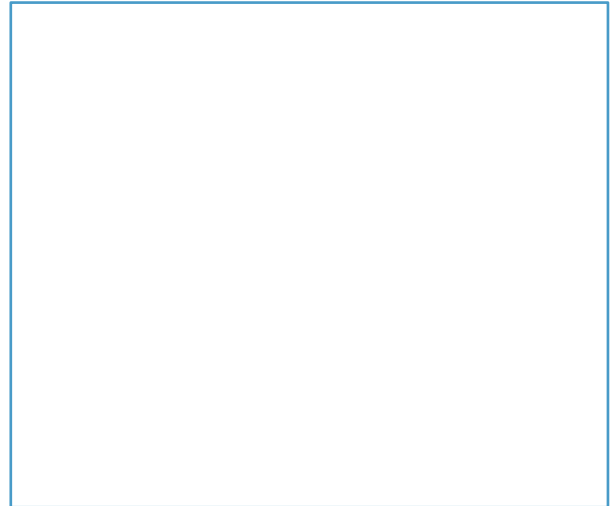
a) Crust -

b) Mantle -

c) Outer Core -

d) Inner Core -

4) What two layers make up the tectonic plates?



Source Website: <https://www.youtube.com/watch?v=3ZpDjdFzQUM>

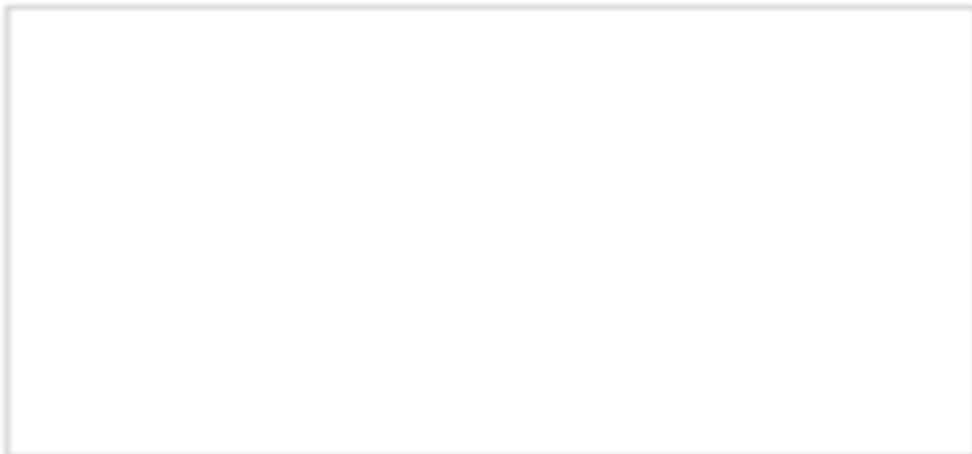
Directions: The place where continental plates meet is called a boundary. **Watch the video** about the three types of boundaries. Answer the questions and draw a sketch of each.

Boundary Type Name #2: **CONVERGENT BOUNDARIES - There are 3 sub-types!**

5) Describe what happens at a **Continental to Continental Convergent** boundary.

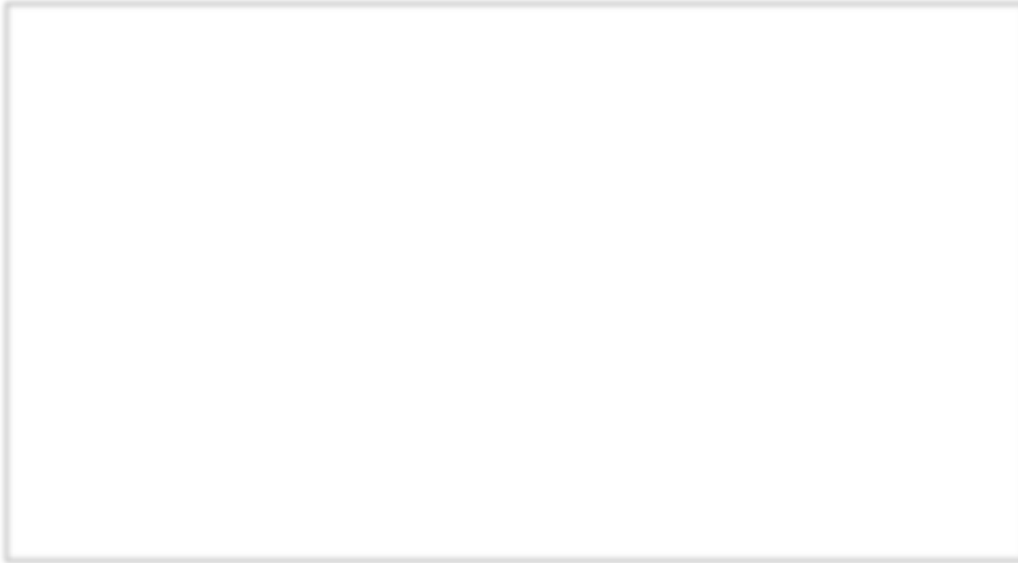
*Include geologic structures they create.

6) Draw a sketch of this boundary **and** add arrows to show direction of the plates:



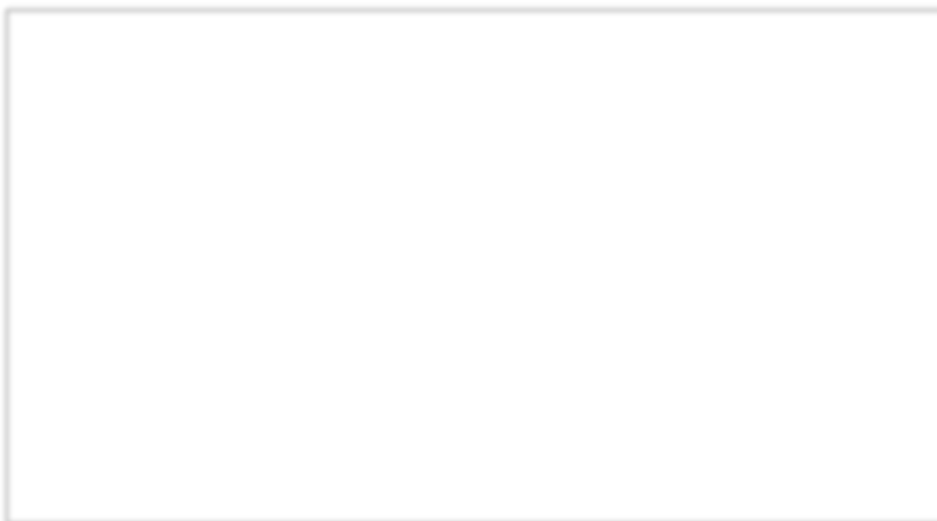
7) Describe what happens at a **Oceanic to Continental** Convergent boundary.
*Include geologic structures they create.

8) Draw a sketch of this boundary **and** add arrows to show direction of the plates:



9) Describe what happens at a **Oceanic to Oceanic Convergent** boundary.
*Include geologic structures they create.

10) Draw a sketch of this boundary **and** add arrows to show direction of the plates:

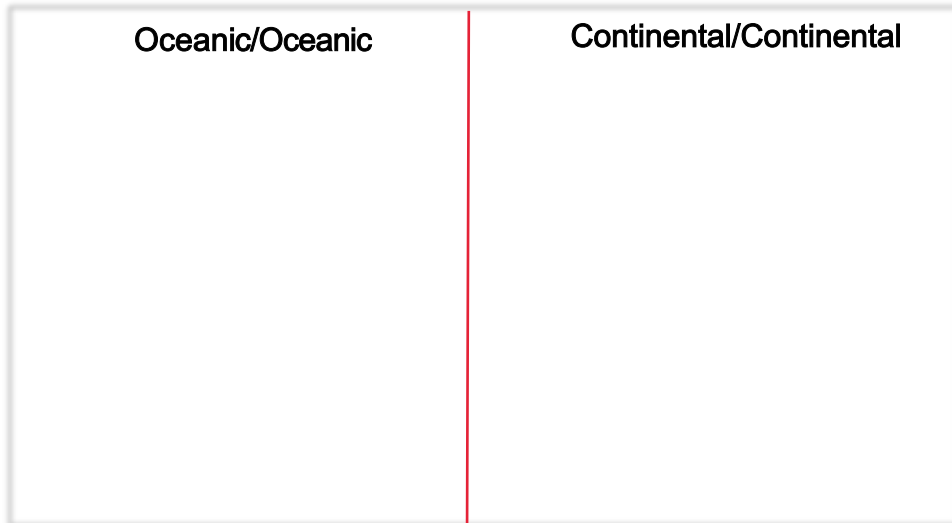


Boundary Type Name #1: **DIVERGENT BOUNDARY**

11) Describe what happens at a **Divergent Boundary**.

*Include geologic structures they create.

12) Draw a sketch of this boundary **and** add arrows to show direction of the plates:

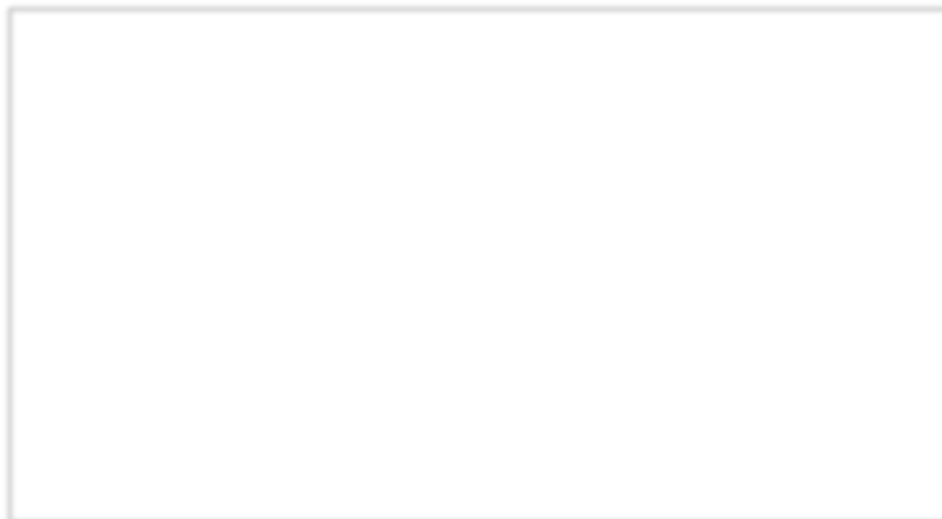


Boundary Type Name #3: **TRANSFORM BOUNDARY**

13) Describe what happens at a **Transform Boundary**.

*Include geologic **events** they create.

14) Draw a sketch of this boundary **and** add arrows to show direction of the plates:



Source Website: <https://www.youtube.com/watch?v=RA2-Vc4PIOY>

Directions: Learn what makes the plates move and what causes Earthquakes and Volcanoes. Make sure to answer in complete sentences.

15) What is the Mid-Atlantic Ridge?

16) What is Seafloor spreading?

17) What is a convection current?

18) How do we feel the movement of Earth's tectonic plates?

19) How do Volcanoes form?

20) What is a subduction zone?

21) How are mountain ranges formed?

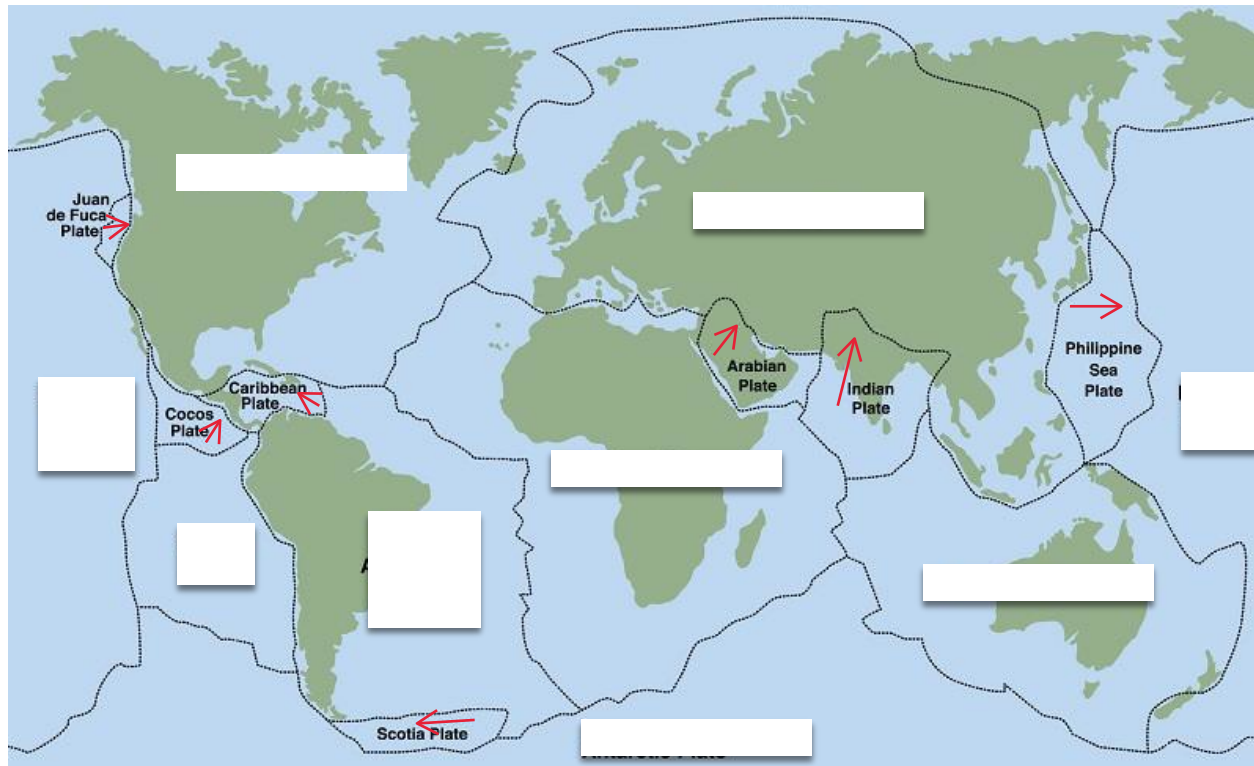
Source Website: <http://academic.brooklyn.cuny.edu/geology/grocha/plates/platefec21.htm>

Directions:

Use the following website to complete the map below.

- 22) Fill in the names of the plates.
- 23) Draw the arrows on the plates to show what direction they are moving.

PLATE NAMES AND DIRECTIONS



24) Name two plates that have a Divergent Boundary:

25) Name two plates that have a Convergent Boundary:

Directions: Use what you have learned in this webquest to answer the question below.

26) What does the theory of Plate Tectonics explain that Wegener was not able to explain in his Theory of Continental Drift? (Use complete sentences!)