

**Please use the following resources to learn about tectonics**

**Watch this Video:** <https://www.youtube.com/watch?v=RA2-Vc4PIOY>

**Answer these questions:**

- What evidence is given for the supercontinent Pangea?
- What are the three types of plate boundaries? How does each one move?
- How are the Himalayan mountains formed?
- Is there anything in your town that shows evidence of plate tectonics? (Mountains, earthquakes, etc.)

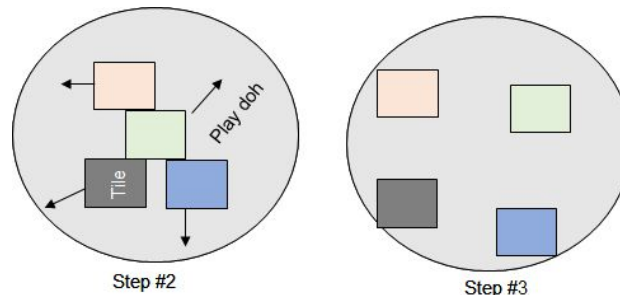
**Activities:** Follow these directions to make a model of the earth's crust and mantle.

You will need:

<ul style="list-style-type: none"> <li>• Play doh, silly putty, slime, or soft clay</li> </ul>	<ul style="list-style-type: none"> <li>• 4 small tiles or small items (lego, board game pieces, pen cap, paper clip, etc)</li> </ul>
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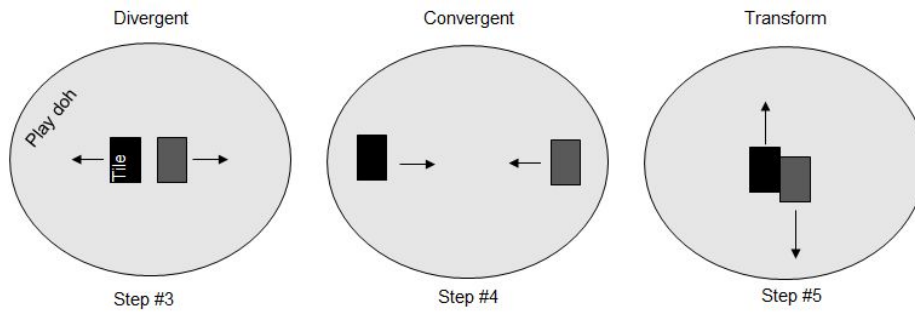
**Part 1: Modeling continental drift**

1. Make play doh into a ball.
2. Place your 4 small tiles on top of the ball of play doh, close together.
3. Move the tiles around on the ball of play doh seeing how far apart the tiles can get
4. Which model (step #2 or step #3) is a good representation of Pangea and which model is a good representation of today's earth?



**Part 2: Modeling plate boundaries**

1. Squish play doh flat on the table
2. Push 2 of the tiles into the play doh
3. Slowly move the tiles away from each other. Which plate boundary does this model (divergent, convergent, or transform)? What happens to the play doh below?
4. Slowly move the tiles together. Does one tile move on top of the other? Which plate boundary does this represent?
5. Slowly move the tiles sideways past each other. What happens to the play doh below? Which plate boundary does this represent?



**Make observations & use Claims, Evidence, and Reasoning!**

1. **Claim:** The earth continents have not always looked the way they do today

- **Evidence:**

- **Reasoning:**

2. **Claim:** Mountains are formed by plate tectonics

- **Evidence:**

- **Reasoning:**