

Snack Tectonics

We are going to use some treats as a tool to help explore plate tectonics and gather information about how tectonic plates behave and the resulting events and features at the plate boundaries.

What would be a good focus question for the lab?



Glue this side into your notebook



Divergent Plate Boundary

1. What happens to tectonic plates here?
2. What did the different items represent?
3. On your notes page, add this information in with a diagram of your model with labels (**divergent plate boundary**, **magma (asthenosphere)**, **oceanic crust**).
4. When divergent plates pull apart, how is new crust being made?

Convergent Plate Boundary- Oceanic to Continental

1. What is the difference between oceanic crust and continental crust?

2. What happens to tectonic plates here?

3. What did the different items represent?

4. On your notes page, add this information in with a diagram of your model with labels (**convergent plate boundary, magma (asthenosphere), oceanic crust, continental crust**)

5. When continental crust and oceanic crust collide, one plate goes under another, Explain why the process of **subduction** occurs.

Convergent Plate Boundary- Continental to Continental

1. What happens to tectonic plates here?

2. What did the different items represent?

3. On your notes page, add this information in with a diagram of your model with labels (**convergent plate boundary, magma (asthenosphere), continental crust**)

4. In our model, the wet edges of the cracker buckled or folded. What geological even does this buckling mimic?

Why do you think this even occurs in real life?

Transform Plate Boundary

1. What happens to tectonic plates here?

2. What did the different items represent?

3. On your notes page, add this information in with a diagram of your model with labels (**convergent plate boundary, magma (asthenosphere), continental crust**)

4. What happened to the dry edges of the cracker?

How is this model similar to what happens in an earthquake?