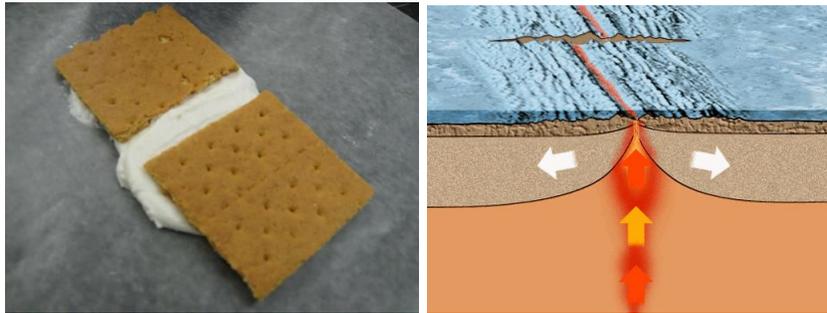


Standard	Learning Goals
Plate Tectonics	<ul style="list-style-type: none"> I can use geological evidence to support the theory of plate tectonics.

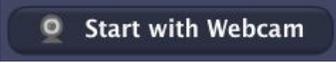
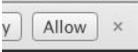
Make a Plate Boundary Model Gif



We will be making models of plate boundaries using frosting and graham crackers. Your job is to show (making a .gif file) how the plates move, and what features you would see.

What layers of the earth do these materials represent? Explain how you know.

How to Make a Gif:

- Use gifpal.com to make your gif (<https://gifmake.com/>)
- Click  to take pictures with your computer
- Click **Allow**  Remember and then **Close**
- At the top-right corner of Chrome, click the Allow button 
- To take your photos, click the  button.
- Move your crackers a little and take another photo (keep the laptop still!)
- Take a maximum of about 10 photos
- Change the delay time if you like and then the click  button
- Then click the  button and save it to your Desktop
- To view your gif animation, click  **Image...** on your document and upload it

Model #1: Convergent Boundary

Before you start, look at your Notes document. What features would you find at a **convergent** boundary?

For ideas on how to make your model, check out the **plate simulation** that you used for homework: http://sepuplhs.org/middle/iaes/students/simulations/sepup_plate_motion.html

Insert your team's Gif of this plate boundary in the box below

If both plates were CONTINENTAL CRUST, explain what features would you see, and **WHY** you would see them:

If one or more of the plates were OCEANIC CRUST, explain what features would you see, and **WHY** you would see them:

Challenge: Explain what is **realistic** about your model and what is **not very realistic**.

Model #2: Divergent Boundary

Before you start, look at your *NOTES* document. What features would you find at a **divergent** boundary?

For ideas on how to make your model, check out the **plate simulation** that you used for homework: http://sepuplhs.org/middle/iaes/students/simulations/sepup_plate_motion.html

Insert your team's Gif of this plate boundary in the box below

If both plates were CONTINENTAL CRUST, explain what features would you see, and **WHY** you would see them:

If both plates were OCEANIC CRUST, explain what features would you see, and **WHY** you would see them:

Challenge: Explain what is **realistic** about your model and what is **not very realistic**.

Model #3: Transform Boundary

Before you start, look at your *NOTES* document. What features would you find at a **transform** boundary?

For ideas on how to make your model, check out the **plate simulation** that you used for homework: http://sepuplhs.org/middle/iaes/students/simulations/sepup_plate_motion.html

Insert your team's Gif of this plate boundary in the box below

For any transform boundary, explain what feature would you see, and **WHY** you would see it:

Challenge: Explain what is **realistic** about your model and what is **not very realistic**.