Name	Date Period	
	Graham Cracker Model of Plate Tectonics	
Background The Theory of Plate Tectonics states that the crust of the Earth is composed of seven major plates and numerous smaller plates. These plates "ride" on the hot plastic upper mantle known as the asthenosphere. This theory also says that most of these plates are in motion, due to convection in the mantle, creating a variety of interactions at plate boundaries. At plate boundaries, plates may converge, diverge or slip past each other in a horizontal motion. In addition, some plates may be inactive.		
1 index 1 cup o 1 cup o	e graham crackers c card of water* of frosting of wax paper	
dispos	with an asterisk (*) will be reused for the next period. All other items may ed of at the end of the period.	be Surge
Procee		
Part I	Divergent Plate Boundaries-Oceanic vs. Oceanic	
) 1.	Break a whole graham cracker into two square pieces by following the pecracker.	riorations on the
2.	Using the knife spread a thick layer of frosting in the center of the wax pacover an area large enough for the two crackers.	per. The icing should
	Lay the two pieces of graham crackers side by side on top of the frosting.	
4.	Imitate the movement of diverging oceanic plates. Make sure to press do	wn firmly and do not
5	push the crackers more than 1 centimeter apart.	
J.	Draw observations of the crackers and the icing.	

## **Questions:**

- 1. What happened to the frosting between the crackers?
- 2. What do the graham crackers represent?
- 3. What does the frosting represent?
- 4. Provide an example of a location where this type of boundary is found on Earth.
- 5. What type of feature is produced by this type of plate movement?