

Modeling Plate Movement & Landforms Created

Name: _____

Objective: To model different types of plate movements and to observe the resulting feature.

Problem:

Research: *Hint – you will use your notes from the past week to research. You will want to find out information on the independent variable and dependent variable in the problem that you wrote above.*

IV = _____

DV = _____

Hypothesis:

Important Information:

1. You must model the following boundaries (in this order!):
 - Transform
 - Oceanic-Oceanic Divergent
 - Continental-Continental Convergent
2. Plan how you will model each of these boundaries with materials listed below. You will not get more supplies! Think about how the 4 pieces of graham cracker can be used for 3 different boundaries.
3. Remember the ways to write successful procedures. Look at your notes from yesterday for hints! It may be helpful if you write the procedures as 3 separate sections (like three mini-experiments!) for the 3 boundaries. Diagrams are often helpful in procedures as well.

Materials:

1 whole graham cracker (divided into 4 pieces)	=	_____
1 scoop of pudding	=	_____
30 mL water		

What does this represent in your model?

One piece of wax paper – 30 cm x 30 cm (for easy clean-up purposes!)

QUESTIONS:

Modeling Plate Movement and Resulting Landforms
Procedure Reminders!

Transform:

- Are two crackers used?
- Are the two crackers side by side, touching on the long side of the rectangle?
- Are the two crackers moving in opposite directions?
- Is a picture used to help the reader understand the movement?

Oceanic- Oceanic Divergent:

- Are the two crackers from the transform demonstration being re-used?
- Is the pudding used to represent the magma, forming a mid-ocean ridge?
- Is a picture used to help the reader understand the movement?

Continental-Continental Convergent:

- Are the remaining two crackers used?
- Are the ends of the crackers dipped in water (for only a few seconds) to help demonstrate the resulting landform?
- Is a picture used to help the reader understand the movement?