Name:

Date: Per.

Milky Way Plate Tectonics

Safety and precautions:

*CLEAN UP after yourself

- * You must finish the first set of questions to obtain a bar.
- * Eat your bar only when instructed to do so.

The three layers of the Milky Way will be a model for plate tectonics today –

EARTH'S LAYERS



So hot that even pressure can't force it into a solid, This layer is liquid.

LAYERS OF A MILKY WAY If you cut a Milky Way in ¹/₂...



Question 1: Fill out the table below:

Milky Way layer	Earth layer	
Chocolate		
	Mantle	
Nougat		

Question 2: If the earth were a milkyway bar, plates of plate tectonics would be made out of_____.

Question 3: Which Earth layer is missing from the Milky Way model?

Show this completed page to Mrs. Barge for Milky Way bar



Question 10: Add stars along the edges where you'd expect the most earthquakes to your drawing.

Question 11: Are earthquakes at transform boundaries shallow or deep? Why?



Question 14: Which type of convergent boundary/ies would form mountains from plates pushing each other up?

Oceanic-Oceanic Oceanic-Continental Continental-Continental

Question 15: Which type of convergent boundary/ies would force one plate under another plate? (*Hint: Oceanic crust is more dense than continental crust.*)

Oceanic-Oceanic Oceanic-Continental Continental-Continental

Question 16: Which type of boundary might have deeper earthquakes, divergent or convergent? (*Hint: Which type of boundary FORCES crust DOWN into the mantle*).

Eat Model

Question 17: What does the data look like for each type of boundary?

Boundary Type	Earthquakes	Volcanoes	How is it labeled?
Divergent – Rift Zone			
Transform Zone			
Convergent – Subduction zone			
Convergent – Buckling Zone			