



### Snack Cake Earth Model Lab

You are the geologists today. You have in front of you a model representing the layers of the earth. Using your straw drill, take core samples and describe the samples as they come out of the "earth". Answer the questions that follow.

1) How many layers do you see?

2) Describe each layer and draw a picture.



3) How is this core sample the same as what you would find in the layers of the earth?

4) How is this different?

Now take your earth model and split it in half. This is called divergent plates.

5) As it splits, describe and draw what you see happening to each layer.

Observations	Picture

Now make your two halves slide past one another. This is called a transform fault.



6) Describe and draw what you see happening.

Observations	Picture

Finally, push the two halves together to create converging plates.

7) Describe and draw what is happening.

Observations	Picture

You may now *eat* your model!

8) What geological features might you find at a convergent boundary?

9) What geological activities might you find at the tectonic plate boundary?

10) Summarize your lab experience. Point out what your model demonstrated, how it was the same as the structure of the earth, how it was different than the Earth, and what you would want to do different next time.