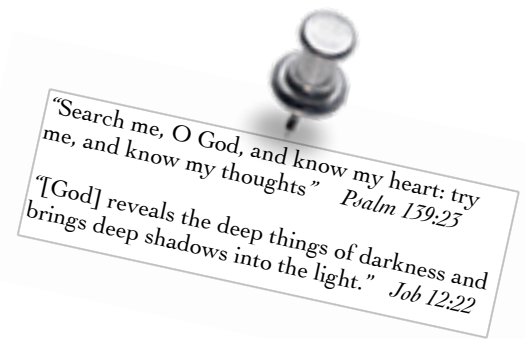


# Science Project, Wk. 14 -- Sampler (#126)

Name: \_\_\_\_\_



**P**urpose: To demonstrate core sampling.

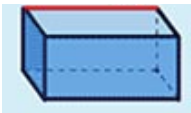
**M**aterials: 3 different colors of modeling clay; drinking straw, fingernail scissors  
(Younger ones may do better with a biscuit cutter instead of the straw and scissors.)

**P**rocedure:

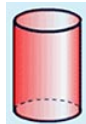
- Soften an egg-sized piece of each color of clay by squeezing it in your hands.
- Flatten the clay pieces, and stack them on top of each other to form a block about 1-inch deep.
- Push the straw through the layers of clay.
- Pull the tube out of the clay.
- Use the scissors to cut open the straw.
- Remove the clay plug.

**H**ypothesis (CIRCLE): The straw will cut a \_\_\_\_\_-shaped sample from the layered stack of clay.

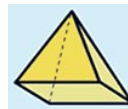
box



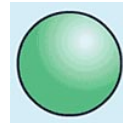
cylinder



pyramid

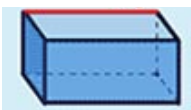


sphere

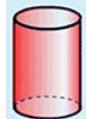


**R**esult (CIRCLE): The straw cut a \_\_\_\_\_-shaped sample from the layered stack of clay.

box



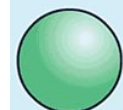
cylinder



pyramid



sphere



**C**onclusion:

As the straw cuts through the clay, the clay is pushed up inside the hollow tube. The captured clay is called a **core sample**, and it reveals what materials are layered inside the block of clay. Instead of plastic straws, scientists use heavy metal devices to core through layers of soil. These samplers have plungers, which push the soil sample out to be studied.

Sketch:

