

Floating Crust

The crust of the Earth is said to have a different composition than the inside of the Earth. Is this significant to the Earth's structure? This activity might help us investigate a little bit.

Observation / Question

Why do scientists believe there are different layers inside the Earth?

Hypothesis

Write a hypothesis that logically answers the question above.

Activity Procedures

1. Each group will acquire and bring back to their station, one syringe, one beaker and one test tube. Please draw your observation of the test tube in the box to the right of each procedure.
2. One group member will walk to the front of the lab and fill the syringe with 5 ml of blue liquid. Gently pour the liquid into the test tube. On your notebook paper, describe what you observe. Then, draw what you observe. Using water at your station, carefully clean out the syringe.
3. One group member will walk to the front of the lab and fill the syringe with 5 ml of yellow liquid. Gently pour the liquid into the test tube. On your notebook paper, describe what you observe. Then, draw what you observe. Using water at your station, carefully clean out the syringe.
4. One group member will walk to the front of the lab and fill the syringe with 5 ml of green liquid. Gently pour the liquid into the test tube. On your notebook paper, describe what you observe. Then, draw what you observe. Using water at your station, carefully clean out the syringe.
5. One group member will walk to the front of the lab and fill the syringe with 5 ml of purple liquid. Gently pour the liquid into the test tube. On your notebook paper, describe what you observe. Then, draw what you observe. Using water at your station, carefully clean out the syringe.
6. One group member will walk to the front of the lab and fill the syringe with 5 ml of orange liquid. Gently pour the liquid into the test tube. On your notebook paper, describe what you observe. Then, draw what you observe. Using water at your station, carefully clean out the syringe.
7. Carefully pour the contents of the test tube down the drain at your station and clean it and the syringe thoroughly. Slowly turn the water on and let it run for one minute down the drain. Bring the syringe, beaker and test tube back to the front table of the lab.

Step

2

3

4

5

6

Name _____ Date _____ Period _____

8. Explain what happened to the liquids.

9. Did any of the liquids mix together? Explain.

10. Why do you think they did or did not mix together?

11. What is the main idea of this activity?

12. What is the most important thing to remember in this lab?

13. What could you have done differently in this activity to make it more lifelike or work out even better?

14. Define density in your own words.