

WHO'S THE DENSEST OF THE THEM ALL?

PURPOSE: Children will observe the characteristics of liquids.

MATERIALS:

Book Topics: density, liquids

Tall transparent jar or glass

Water

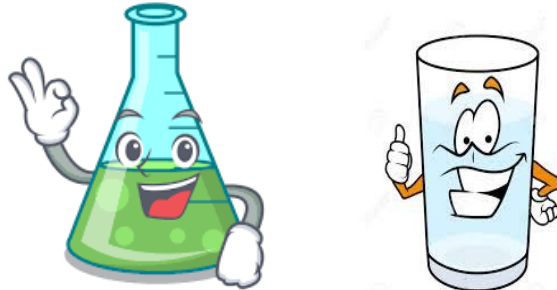
Rubbing alcohol

Cooking oil

Dish washing detergent

Measuring cup

Red and blue food coloring



PROCEDURE:

1. Add five drops of red food coloring to 1/2 cup of water.
2. Add ten drops of blue food coloring to 1/2 cup of rubbing alcohol.
3. Pour the 1/2 cup of red water into the jar.
4. Have your family/friend predict what will happen when the cooking oil is slowly poured down the side of the jar.
5. Pour the cooking oil down the side of the jar.
6. Observe. Describe what happened to the red water and the cooking oil. Why do you think this happened?
7. Have each family/friend predict what will happen when the blue alcohol is slowly poured down the side of the jar.
8. Pour the blue alcohol carefully down the side of the jar.
9. Observe. Describe the results.
10. Have each family/friend make a prediction about the dish washing liquid detergent.
11. Pour 1/2 cup of liquid detergent down the side of the jar.
12. Observe. Have the family/friend describe what happened. Why do you think these layers formed?



WRITING PROMPT

You learned about density and how the mass of a liquid determines whether it will sink or float

Think about what happens when water and oil are mixed together.

Write about how you would clean up an oil spill.

Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, **OR** you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Complete Website: _____

Writing Prompt (minimum 5 sentences)
