



The Great Milk and Cookie Dunk Experiment

Have you ever wondered why some things sink while others float? How a cruise ship sails across the ocean, but a rock sinks to the bottom? It doesn't have to do with the weight of the object, rather the object's density. Density is a measurement that compares the amount of matter in an object (mass) in relation to the space it takes up (volume). An object will sink if it has more density than the liquid it is in. Whether the object sinks or floats will determine its buoyancy. Buoyancy is a scientific term used to describe an object's ability to float. Now let's experiment!

What you need:

- a notebook and pencil
- 4 types of cookies
- 1 cup of milk in a clear glass
- a napkin

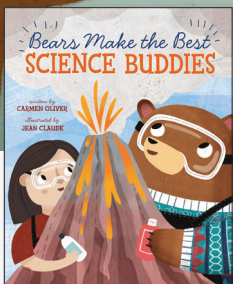
What you do:

Step 1 (observe): Observe your cookies. How do they feel? Do some feel lighter than others? Are some thicker than others?

Step 2 (make a hypothesis): Predict which cookies you think will sink and which cookies you think will float.

Step 3 (experiment): Now it's time to dunk! Put your first cookie in the glass. What happens? Take it out and record your findings. Repeat the steps until you've dunked all four types of cookies.

Step 4 (analyze results): What is your conclusion? Did the cookies you thought would sink float? Did anything unexpected happen?



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