

Buoyancy

Have you ever tried to float in an ocean or in a lake?
Was there a difference?

Can you make an egg float in water? Write a hypothesis.

Place an egg in a glass of water. Record your observations about the egg.

Record your observations about the egg using each of the materials listed below.

1. Add 2 tablespoons of salt. Write about your observations. Does the egg show any properties of buoyancy?
2. Add 2 more tablespoons of salt. Record you observations. Does the egg show properties of buoyancy?
3. Repeat with the Sugar and Soap materials.

Material	2 Tbsp.	4 Tbsp.
Salt		
Sugar		
Liquid Soap		

Why do you think the egg floats?

What is buoyancy?

When salt is added to the water, more molecules are smashed together, causing the water to increase in density. When there was no salt in the water, the egg was more dense than the water. When salt was added to the water, the water was more dense than the egg, and the egg floated. Although the salt water and fresh water take up the same amount of space, the salt water has more mass. If you placed each cup on a balance, the salt water would weigh more than the fresh water.