

Egg Float Experiment

SCIENCE ACTIVITY

Supplies:

- A clear cup or glass
- 1 fresh, raw egg
- Salt
- A bowl
- Measuring spoons



Learning Objective

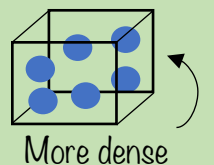
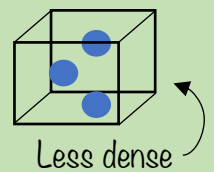
To discover how much salt it takes to change the **density** of tap water enough to cause an egg to float!

Instructions

1. Make a data sheet to record the amount of salt you add at each trial.
2. Fill a clear glass about $\frac{3}{4}$ of the way full with tap water.
3. Place an egg in the water and make initial observations. Remove egg and place in bowl between trials.
4. Ask your young scientist to decide an initial amount of salt to add. Add the salt to the water and stir to dissolve. Place the egg back in the water.
5. Based on this initial observation ask your scientist to make a **prediction** of how much total salt (tablespoons) it will take to make the egg float.
6. Continue incrementally adding salt until the egg floats!

THE SCIENCE

This experiment explores the concept of **density**. Density is a measure of how compact something is (how much “stuff” or matter is packed into the space). Mathematically density is the ratio of mass to volume for an object or substance. A great way to visualize this is compare two things that are the same size, like a ping-pong ball and a golf ball, but are different densities. You can also teach your scientist to draw 3D cubes!



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