



## FLOAT AN EGG

**TYPE OF ACTIVITY:** Science

**KEY CONCEPT:** Eat a variety of foods



### OBJECTIVES:

- › Children will explain the difference between sinking and floating.
- › Children will predict whether an egg will sink or float in tap water and salty water.
- › Children will compare their predictions with what they actually observe.

### MATERIALS:

- › Uncooked Eggs
- › Container of warm water
- › Salt (at least 5 Tablespoons)
- › Large spoon



### PROCEDURE:

1. Review the protein group with the children.  
Suggested phrases:
  - a. *What foods are in the protein group? Eggs are one protein food.*
  - b. *Why should we eat protein foods? They help us build strong muscles.*
2. Show children the egg and the container of warm water. Explain that they are going to place an egg in the water to see if it floats or sinks. Ask children to predict what will happen.  
Suggested phrases:
  - a. *This is an uncooked egg. What does an uncooked egg look like on the inside? What would happen if we dropped this egg?*
  - b. *If we place this egg into the water, do you predict that it will sink or float?*
3. Have a child place the egg in the warm water. It should sink to the bottom. Ask what happened to the egg. Compare what happened to their prediction.
4. Ask children if they think the egg would still sink if the water was salty. Pour at least 5 tablespoons of salt into the container and let the children help stir until the salt dissolves. Talk to them about what "dissolve" means. Suggested phrases:
  - a. *Let's stir the water until the salt dissolves. If we keep stirring, soon we won't be able to see the salt anymore because it will be dissolved in the water.*
  - b. *What do you think will happen when we put the egg in the salty water?*

### Day 3: Proteins

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5. Have a child place the egg in the container of salty water. It should float. Ask children what happened to the egg this time. Suggested phrases:
  - a. *Was that what you thought would happen? The egg floated on top of the water.*
  - b. *Water is made up of molecules. Molecules are little parts we can't even see.*
  - c. *The salt made the water more dense, because the molecules were closer together. When the molecules are close together, the egg floats.*

#### ADAPTATIONS/EXTENSIONS:

**Science:** Show children an uncooked egg and a hard-boiled egg, and talk about the differences between the two. Encourage them to use their senses to compare the eggs. Repeat the floating and sinking experiment with the hard-boiled egg.

