



## SALTY EGG

### SCIENCE SAFETY

PLEASE follow these safety precautions when doing any science experiment.

- **ALWAYS** have an adult present.
- **ALWAYS** wear the correct safety gear while doing any experiment.
- **NEVER** eat or drink anything when performing any experiment.
- **REMEMBER** experiments may require marbles, small balls, balloons, and other small parts. Those objects could become a CHOKING HAZARD. Adults are to perform those experiments using these objects. Any child can choke or suffocate on uninflated or broken balloons. Keep uninflated or broken balloons away from children.

### INGREDIENTS

- 2 Clear Plastic Cups
- Water
- Salt
- 2 Uncooked Eggs
- Digital Scale

### INSTRUCTIONS

**STEP 1:** Fill the one of the clear plastic cups half of the way with water. Describe and classify the water by its observable properties. Using the digital scale, determine the mass of the water.

**STEP 2:** Place an uncooked egg into the water. Does the egg sink or float?

**STEP 3:** Fill the other clear plastic cup half of the way with water. Add half a cup of salt to the water and mix. Describe and classify the water by its observable properties. Using the digital scale, determine the mass of the salt water. Is the salt water denser than the water without salt?

**STEP 4:** Place the other uncooked egg into the water. Does the egg sink or float?

### EXPLANATION

Adding salt to the water makes the water denser than the egg, allowing the egg to float. The egg sinks in the water without salt, since the egg is denser than the water.



### SCIENCE BACKGROUND

Matter is anything that has mass and takes up space. Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties. Measurements of a variety of properties can be used to identify materials. Different properties are suited to different purposes.

### I CAN STATEMENTS

- ✓ I can plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- ✓ I can make observations and measurements to identify materials based on their properties.

### NEXT GENERATION SCIENCE STANDARDS CONNECTION

2 – Structure and Properties of Matter  
5 – Structure and Properties of Matter

