



## LAVA LAMP

### 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 while doing 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

- Tall Transparent Glass
- Vegetable Oil
- Water
- Food Coloring
- Alka-Seltzer

### INSTRUCTIONS

**STEP 1:** Fill the tall transparent glass 1/4 of the way with water. Add food coloring. Describe and classify the water by its observable properties.

**STEP 2:** Fill the tall transparent glass 2/4 of the way with vegetable oil. Describe and classify the vegetable oil by its observable properties.

**STEP 3:** Drop an Alka-Seltzer tablet into tall transparent glass and observe. Describe and classify what you see by its observable properties.

### EXPLANATION

Oil and water do not mix. The oil stays above the water, since it is less dense than the water. The Alka-Seltzer tablet sinks to the bottom, dissolving in the water, creating a gas. The rising, gas filled, blobs of water push through the vegetable oil to the top. Once at the top, the gas escapes and the blobs of water sink back to the bottom.



### 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. 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.

### NEXT GENERATION SCIENCE STANDARDS CONNECTION

2 – Structure and Properties of Matter | Patterns