

## **ALKA SELTZER ROCKET**

### 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**

- Film Canister
- Alka Seltzer
- Water

#### INSTRUCTIONS

**STEP 1**: Fill the film canister ½ of the way with water. Describe and classify the water and alka seltzer by their observable properties.

**STEP 2**: Add the alka seltzer to the film canister. Snap on the lid to the film canister. Turn the film canister upside down and watch. Did mixing the two substances result in a new substance?

#### **EXPLANATION**

When the alka seltzer is added to the water, a chemical reaction happens, which creates carbon dioxide gas. The carbon dioxide gas fills the film canister, launching the film canister into the air.



#### 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. When two or more different substances are mixed, a new substance with different properties may form. This is considered a chemical reaction, which is a change that results in one or more new substances. A physical reaction does not result in a new substance.

#### I CAN STATEMENT

- ✓ I can plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
- ✓ I can conduct an investigation to determine whether the mixing of two or more substances results in a new substance.

# NEXT GENERATION SCIENCE STANDARDS CONNECTION

2 – Structure and
Properties of Matter I
Patterns
5 – Structure and
Properties of Matter I
Cause and Effect