



## FIRE CHIPS

### 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

- Grill Lighter
- Doritos Cool Ranch Flavored Tortilla Chips

### INSTRUCTIONS

**STEP 1:** Place several Doritos Cool Ranch flavored tortilla chips in a fireproof dish. Describe the chips by using their observable properties.

**STEP 2:** Using the grill lighter, ignite the chips and observe. Describe the chips by using their observable properties. Did burning the chips results in a new substance.

### EXPLANATION

Fuel, oxygen, and heat are all needed for fire. These three ingredients make up what is known as the fire triangle. The Doritos Cool Ranch flavored tortilla chips easily catch fire due to the flavor powder and oil on the chips, which creates a good combination for combustion.



### 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. Different properties are suited to different purposes. When two or more different substances are mixed, a new substance with different properties may be formed.

### I CAN STATEMENT

- ✓ I can plan and conduct an investigation to describe and classify different kinds of matter 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  
5 – Structure and Properties of Matter

