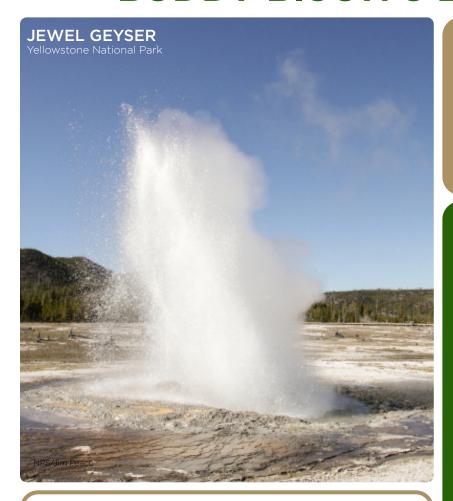
## **BUDDY BISON'S BAKING SODA GEYSER**



## What is a Geyser?

When magma (hot fluid within or below the Earth's crust) heats water underground, it can erupt out of a crack in the Earth's surface. This spout of hot water and steam is called a **geyser.** Yellowstone contains half of the world's known geysers, with eruptions happening daily.

## **SUPPLIES**

- 2 tsp dish soap
- 1/4 cup cold water
- 11/2 cups white vinegar
- Baking soda slurry
  (1/2 cup baking soda mixed with 1/2 cup
  water)
- Empty 2-liter soda bottle



## **DIRECTIONS**

THIS WILL BE MESSY! We recommend doing this outside.

- 1. Combine the dish soap, water, and vinegar in the soda bottle.
- 2. Pour the baking soda slurry into the bottle and quickly move back . It's geyser time!

HOW IT WORKS: When baking soda and vinegar mix, they create carbon dioxide gas through a chemical reaction. This gas expands rapidly, making bubbles that fill up the bottle, causing our mini "eruption"!

**EXTENSION:** Try using different amounts of all the ingredients, and see how that affects your geyser.



