

3 Fun DIY Science Experiments

Get ready to explore science with these easy, hands-on experiments you can do at home! Each one uses simple materials and helps you see real science in action—no lab coat needed!

#1. Magic Pepper & Soap



What You Need:

- Shallow dish
- Water
- Ground pepper
- Dish soap

What To Do:

1. Pour water into the dish and sprinkle pepper evenly on top.
2. Put a drop of dish soap on your finger.
3. Touch the water's surface and watch the pepper race away!

 **Science Behind It:** The soap breaks the water's surface tension, making the pepper scatter.

#2. Homemade Volcano




What You Need:

- Small bottle or cup
- 2 tablespoons baking soda
- 1/2 cup vinegar
- A few drops of dish soap
- Optional: food coloring

What To Do:

1. Place the bottle on a tray (to catch spills).
2. Add baking soda, dish soap, and food coloring to the bottle.
3. Pour in the vinegar and watch your volcano erupt with bubbles and fizz!

 **Science Behind It:** Baking soda (a base) reacts with vinegar (an acid) to make carbon dioxide gas—causing the “eruption.”

#3. Ice Cream in a Bag




What You Need:

- 1 cup milk or half-and-half
- 2 tablespoons sugar
- 1/2 teaspoon vanilla extract
- Ice
- 1/4 cup salt
- 1 small zip-lock bag
- 1 large zip-lock bag

What To Do:

1. Add milk, sugar, and vanilla to the small bag and seal it tightly.
2. Fill the large bag halfway with ice and add salt.
3. Place the small bag inside the large one, seal, and shake for about 5–10 minutes.
4. Take it out, rinse the bag quickly, and enjoy your homemade ice cream!

 **Science Behind It:** The salt lowers the ice's freezing point, making it cold enough to freeze the ice cream mixture.