

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Objective:

Build a balloon-powered car and learn about air pressure and movement.

### Materials Needed:

- 1 Balloon
- 4 Bottle caps (for wheels)
- 2 Straws or wooden skewers (for axles)
- 1 Plastic bottle or box (for the car body)
- Tape or glue

### Steps to Build Your Balloon Car:

1. **Make the Car Body**
  - Use a plastic bottle or box for the body of your car.
2. **Make the Wheels**
  - Poke a hole in the center of 4 bottle caps. These will be your wheels.
3. **Make the Axles**
  - Push the straws or skewers through the bottle caps to make the axles.
4. **Attach the Axles**
  - Tape or glue the axles to the car body.
5. **Attach the Balloon**
  - Tape the balloon to the car body and make sure the opening is pointing backwards.
6. **Inflate the Balloon**
  - Blow up the balloon and pinch it to keep the air inside.
7. **Let It Go!**
  - Release the balloon and watch your car move!

### Questions:

1. What happens when you let go of the balloon?

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2. How does the air in the balloon make the car move?

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3. What do you think would happen if the car was heavier or lighter?

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4. Can you think of any other materials that could be used for the car body or wheels?

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### **Fun Challenge:**

Try to race your balloon car! How far can it go?

**Record your results:**

- Car 1 Distance: \_\_\_\_\_
- Car 2 Distance: \_\_\_\_\_

### **Reflection:**

What did you learn from making a balloon car?

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### **Extra Challenge:**

- Try making your car go faster by changing the design! What can you do to improve it?

Have fun with your balloon car!