

# MISSION: GROUNDED

## Gravity Experiment Log

Junior RangersScience Lab



Gravity is the force that pulls everything toward the centre of Earth. It is what keeps your feet on the ground and makes things fall when you drop them. Let's test it!

### What You Need:

- \* 5 different objects from around your house (e.g., ball, feather, shoe, spoon, toy)
- \* A safe place to drop them from the same height (e.g., standing on a chair with adult supervision)
- \* This worksheet and a pencil

### Steps:

1. Choose 5 objects and write them in the table below
2. PREDICT: Before dropping, guess - will it fall fast, medium, or slow?
3. DROP each object from the same height
4. OBSERVE: Watch what happens and record your results

### Experiment Table:

| Object | My Prediction<br>(fast/medium/slow) | What Happened | Hit Ground?<br>(yes/no) |
|--------|-------------------------------------|---------------|-------------------------|
|        |                                     |               |                         |
|        |                                     |               |                         |
|        |                                     |               |                         |
|        |                                     |               |                         |
|        |                                     |               |                         |

### Think About It:

- Did ALL objects fall to the ground? \_\_\_\_\_
- Did any object float? Why / why not? \_\_\_\_\_
- What force pulled everything down? \_\_\_\_\_
- What do you think would happen if you did this experiment on the Moon? \_\_\_\_\_

### Did You Know?

On the Moon, gravity is 6 times weaker than on Earth. You could jump 6 times higher!  
But things would still fall - just more slowly.

**Scout Says:**  
Everything falls because of gravity! Even a massive elephant can't escape it...