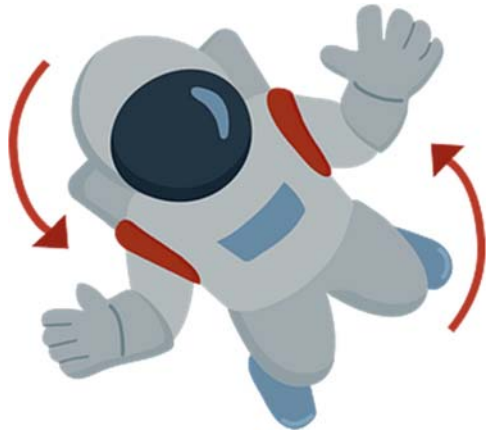


Name \_\_\_\_\_

## Gravity Sorting Challenge



**Instructions:** Below are 14 scenarios from Earth, space, and beyond. Your task is to **sort each example** into one of two categories:

- **Gravity Present** – Gravity is actively influencing the motion or position of objects.
- **Gravity Absent** – Gravity is not influencing the objects in the scenario (or is so negligible it can be ignored).

Write **P** for “Gravity Present” or **A** for “Gravity Absent” in the blank before each number.

### Scenarios

1. An apple falls from a tree branch toward the ground.
2. An astronaut inside the International Space Station floats in microgravity.
3. A feather drifts down to the surface of the Moon.
4. A flashlight beam travels across the vacuum of space.
5. A satellite remains in orbit around Earth.
6. A space probe coasts between stars, far from any large planets.
7. A soccer ball rests on the grass field.
8. A comet curves toward the Sun on its long elliptical path.
9. A radio signal is sent from Mars to Earth.
10. A book sits on a desk.
11. A helium balloon rises in the air after being released.
12. A meteor speeds toward Earth’s atmosphere.
13. A spaceship performs an engine burn to leave Earth’s orbit.
14. A light wave passes by a black hole, bending slightly.