

Name \_\_\_\_\_

## Draw and Explain Gravity Answer Key

Since this worksheet requires student-created drawings, answers will vary. Below are example key points for each prompt:

1. **Space Station Orbit** – The ISS is in constant free fall toward Earth, but its sideways speed keeps it moving forward, so it stays in orbit instead of hitting Earth.
2. **Tidal Pull** – The Moon's gravity pulls on Earth's oceans, creating bulges on the side closest to the Moon and the side opposite, causing high and low tides.
3. **Meteor Entry** – Gravity accelerates the meteor toward Earth, increasing its speed and pulling it into a steeper path.
4. **Black Hole Bending Light** – A black hole's intense gravity warps space-time, bending the path of light passing nearby (gravitational lensing).
5. **Ball on the Moon** – The Moon's weaker gravity means the ball rises higher and falls more slowly compared to on Earth.