



Name _____

Gravity Myths vs. Facts

Instructions: Below are 12 statements about gravity. Some are **myths** (incorrect beliefs) and some are **facts** (scientifically correct). Write **M** for Myth or **F** for Fact in the blank before each statement.

- _____ 1. There is no gravity in space.
- _____ 2. Gravity is what keeps the Moon in orbit around Earth.
- _____ 3. The strength of gravity is the same everywhere in the universe.
- _____ 4. The higher you go above Earth's surface, the weaker gravity becomes.
- _____ 5. Astronauts float in the International Space Station because there is no gravity there.
- _____ 6. Gravity can bend the path of light.
- _____ 7. All objects fall at the same rate in a vacuum, regardless of mass.
- _____ 8. The Sun's gravity affects planets even though it is millions of kilometers away.
- _____ 9. Gravity only pulls objects downward.
- _____ 10. You have the same mass on the Moon as on Earth.
- _____ 11. Gravity is caused by mass attracting mass.
- _____ 12. Black holes have gravity strong enough to prevent light from escaping.

Bonus Challenge

Choose one myth from the list and rewrite it as a correct fact, explaining why the myth is wrong.

MYTH: _____

FACT: _____
