



Gravity

Name: _____

Date: _____

Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A student that weighs 100 pounds on Earth weighs 100 pound on Mars too.

Rewrite: _____

2. Fix the sentence: On the Moon, a 100-pound child weigh almost the same as on Earth.

Rewrite: _____

3. Fix the sentence: Mass and weight is the same thing on every planet you visit.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A 100-pound student on Earth would weigh about _____ pounds on Mars.
2. On the Moon, that same 100-pound student would weigh close to _____ pounds.
3. The amount of matter in your body is called your _____.
4. Gravity always pulls objects toward the center of a planet, an action called _____.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why does an astronaut weigh less on the Moon than on Earth?

2. Explain how a 100-pound Grade 5 student would feel on Mars compared to Earth.

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A student that weighs 100 pounds on Earth weighs 100 pound on Mars too.

Rewrite: **A student who weighs 100 pounds on Earth weighs only 38 pounds on Mars.**

2. Fix the sentence: On the Moon, a 100-pound child weigh almost the same as on Earth.

Rewrite: **On the Moon, a 100-pound child weighs only about 17 pounds.**

3. Fix the sentence: Mass and weight is the same thing on every planet you visit.

Rewrite: **Mass stays the same everywhere, but weight changes with each planet's gravity.**

Part B: Fill in the Blank

Write the missing word or number on each line.

1. A 100-pound student on Earth would weigh about 38 pounds on Mars.
2. On the Moon, that same 100-pound student would weigh close to 17 pounds.
3. The amount of matter in your body is called your mass.
4. Gravity always pulls objects toward the center of a planet, an action called attraction.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why does an astronaut weigh less on the Moon than on Earth?

The Moon has much less mass than Earth, so its gravity is weaker. Weaker gravity pulls on the astronaut with less force, making the astronaut weigh about one-sixth of Earth weight.

2. Explain how a 100-pound Grade 5 student would feel on Mars compared to Earth.

On Mars the student would weigh only about 38 pounds, so jumping and lifting things would feel much easier. Mars gravity is weaker than Earth gravity, but it still pulls the student down.
