



Gravity

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A balance compares two masses, so it measures _____ .
2. A spring scale stretches more when gravity pulls harder, so it measures _____ .
3. An object with more mass has a stronger pull of _____ acting on it.
4. If a backpack has a mass of 5 kilograms, it has 5 kilograms on the _____ as well.
5. A 60 newton dog on Earth would weigh only about 10 newtons on the _____ .
6. On Jupiter, a person would feel much heavier because Jupiter's gravity is much _____ .
7. Astronauts inside the orbiting space station appear to float because they are in free _____ .
8. Even though astronauts float, gravity from Earth still _____ on them.
9. The amount of matter in your body is your _____ .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Balance	→ _____	Increases an object's weight
Spring scale	→ _____	Float because they are in free fall
Stronger gravity	→ _____	Compares two masses to measure mass
Astronauts in space station	→ _____	Stretches with the local gravity to show weight

Answer Key · Gravity · Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A balance compares two masses, so it measures mass .
2. A spring scale stretches more when gravity pulls harder, so it measures weight .
3. An object with more mass has a stronger pull of gravity acting on it.
4. If a backpack has a mass of 5 kilograms, it has 5 kilograms on the Moon as well.
5. A 60 newton dog on Earth would weigh only about 10 newtons on the Moon .
6. On Jupiter, a person would feel much heavier because Jupiter's gravity is much stronger .
7. Astronauts inside the orbiting space station appear to float because they are in free fall .
8. Even though astronauts float, gravity from Earth still pulls on them.
9. The amount of matter in your body is your mass .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Balance	→ <u>Compares two masses to measure mass</u>	Increases an object's weight
Spring scale	→ <u>Stretches with the local gravity to show weight</u>	Float because they are in free fall
Stronger gravity	→ <u>Increases an object's weight</u>	Compares two masses to measure mass
Astronauts in space station	→ <u>Float because they are in free fall</u>	Stretches with the local gravity to show weight