



Gravity

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. A satellite circling the Earth is really doing what?

- A) Falling toward Earth while moving sideways fast enough to keep missing it
- B) Floating because Earth's gravity does not reach that high in space
- C) Being pushed by hot rocket engines that never stop firing
- D) Resting on a thick layer of air far above the clouds

2. Why do astronauts inside the orbiting space station feel weightless?

- A) Earth has no gravity at the height of the station
- B) They and the station are falling together in free fall
- C) Their bodies have lost all of their mass in space
- D) The Moon's gravity cancels Earth's gravity exactly

3. Which event happens because of the Moon's gravity acting on Earth?

- A) Strong winds blow across the deserts each afternoon
- B) Volcanoes erupt deep inside the ocean trenches
- C) High and low tides shift along ocean coastlines
- D) Earth spins one full turn each day on its axis

4. Two students drop a baseball and a tennis ball at the same time from a window. Without much air, how do they fall?

- A) The baseball falls about twice as fast because it is heavier
- B) The tennis ball falls faster because it is lighter and quicker
- C) Both balls fall at about the same rate and land together
- D) Only the baseball falls; the tennis ball stays floating

Part B: Fill in the Blank

Write the correct answer on each line.

1. An object that travels around a larger body in space is called a _____.

2. Falling with only gravity acting on you is called free _____.

3. Two ocean high tides happen each day because of the gravity of the _____.

4. Without air, a hammer and a feather hit the ground at the same _____.

Part A: Multiple Choice

Circle the best answer for each question.

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Part B: Fill in the Blank

Write the correct answer on each line.

1. An object that travels around a larger body in space is called a satellite .
2. Falling with only gravity acting on you is called free fall .
3. Two ocean high tides happen each day because of the gravity of the Moon .
4. Without air, a hammer and a feather hit the ground at the same time .