



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 heavy rock always falls much faster than a light rock through empty space.

Rewrite: _____

2. Fix the sentence: A feather falls slowly because gravity does not pull on feathers at all.

Rewrite: _____

3. Fix the sentence: Free fall happens when an object is held still in your hand near the ground.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. When you drop a book, it speeds up as it falls because of _____ .
2. The push from air that slows a falling feather is called air _____ .
3. Inside a vacuum tube, a feather and a coin reach the floor at the same _____ .
4. An object that is falling with only gravity acting on it is in free _____ .

Part C: Short Answer

Answer each question in one or two complete sentences.

1. If you drop a feather and a rock from the same height in your classroom, which lands first and why?

2. Why does a parachute help a skydiver land safely when gravity is still pulling on them?

Answer Key · Gravity · Grade: Grade 5

Part A: Fix the Sentence

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

1. Fix the sentence: A heavy rock always falls much faster than a light rock through empty space.

Rewrite: A heavy rock and a light rock fall at the same rate through empty space.

2. Fix the sentence: A feather falls slowly because gravity does not pull on feathers at all.

Rewrite: A feather falls slowly because air resistance pushes up against the feather.

3. Fix the sentence: Free fall happens when an object is held still in your hand near the ground.

Rewrite: Free fall happens when gravity is the only force pulling an object as it drops.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. When you drop a book, it speeds up as it falls because of gravity .
2. The push from air that slows a falling feather is called air resistance .
3. Inside a vacuum tube, a feather and a coin reach the floor at the same time .
4. An object that is falling with only gravity acting on it is in free fall .

Part C: Short Answer

Answer each question in one or two complete sentences.

1. If you drop a feather and a rock from the same height in your classroom, which lands first and why?

The rock lands first because air resistance pushes up on the feather more than on the rock, so the feather falls more slowly even though gravity pulls on both objects.

2. Why does a parachute help a skydiver land safely when gravity is still pulling on them?

A parachute spreads out and catches a lot of air, which creates a strong air resistance force pushing up; this upward push slows the skydiver so gravity no longer pulls them down too fast.
