



# Gravity

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

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## Part A: Fix the Sentence

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

1. Fix the sentence: Gravity can either push or pull any object that is near a planet.

Rewrite: \_\_\_\_\_

2. Fix the sentence: When a book sits still on a desk, the forces on it is unbalanced.

Rewrite: \_\_\_\_\_

3. Fix the sentence:

A falling apple have unbalanced forces because gravity pull it down with no support.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

- Gravity is an attractive force, which means it only \_\_\_\_\_ objects together.
- Forces that cancel each other and cause no motion are called \_\_\_\_\_ forces.
- Forces that do not cancel and cause an object to speed up are called \_\_\_\_\_ forces.
- Gravity does not have an opposite force; it only causes \_\_\_\_\_ between masses.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why is a Grade 5 student standing still an example of balanced forces?

\_\_\_\_\_  
\_\_\_\_\_

2. Explain why gravity is called a one-way force instead of having a push opposite.

\_\_\_\_\_  
\_\_\_\_\_

## Answer Key · Gravity · Grade: Grade 5

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### Part A: Fix the Sentence

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

1. Fix the sentence: Gravity can either push or pull any object that is near a planet.

Rewrite: **Gravity can only pull objects; it never pushes them away from a planet.**

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2. Fix the sentence: When a book sits still on a desk, the forces on it is unbalanced.

Rewrite: **When a book sits still on a desk, the forces on it are balanced.**

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3. Fix the sentence:

A falling apple have unbalanced forces because gravity pull it down with no support.

Rewrite: **A falling apple has unbalanced forces because gravity pulls it down with no support.**

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### Part B: Fill in the Blank

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Write the missing word or number on each line.

- Gravity is an attractive force, which means it only **pulls** objects together.
- Forces that cancel each other and cause no motion are called **balanced** forces.
- Forces that do not cancel and cause an object to speed up are called **unbalanced** forces.
- Gravity does not have an opposite force; it only causes **attraction** between masses.

### Part C: Short Answer

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Answer each question in one or two complete sentences.

1. Why is a Grade 5 student standing still an example of balanced forces?

*Gravity pulls the student downward, but the floor pushes upward with an equal force. Because the two forces cancel out, the student does not move up or down. The forces are balanced.*

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2. Explain why gravity is called a one-way force instead of having a push opposite.

*Gravity always pulls masses toward each other and never pushes them apart. There is no opposite force that repels objects with mass, so we describe gravity as one-way attraction acting between any*

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