



# Forces and Motion

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

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

Grade: Grade 3

## Part A: Multiple Choice

Circle the best answer for each question.

1. A Grade 3 student drops a marble and a baseball from the same height with no air effect.

Which hits the ground first?

- A) The marble hits first
- B) The baseball hits first
- C) They hit the ground at the same time
- D) Neither one falls

2. Why does a feather fall more slowly than a rock in real life?

- A) Gravity is weaker on feathers
- B) Air resistance pushes up on the feather more
- C) Feathers are not pulled by gravity
- D) Rocks have special magnets

3. A ball is dropped from a Grade 3 classroom window. What makes it fall?

- A) A magnet in the ground
- B) The force of gravity from Earth
- C) The wind only
- D) Friction with the window

4. Two Grade 3 students drop different-sized rubber balls at the same time. What happens?

- A) The heavier ball lands much sooner
- B) The lighter ball lands much sooner
- C) They land at about the same time
- D) Both balls float in the air

## Part B: Fill in the Blank

Write the correct answer on each line.

1. The force that pulls objects toward Earth is called \_\_\_\_\_.
2. Ignoring air, two objects dropped from the same height fall at the \_\_\_\_\_ rate.
3. A feather falls slowly because of \_\_\_\_\_ resistance pushing up on it.
4. Gravity always pulls objects toward the center of \_\_\_\_\_.
5. Without gravity, a Grade 3 student's jump would never bring them back \_\_\_\_\_.

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**Part B: Fill in the Blank**

Write the correct answer on each line.

1. The force that pulls objects toward Earth is called gravity .
2. Ignoring air, two objects dropped from the same height fall at the same rate.
3. A feather falls slowly because of air resistance pushing up on it.
4. Gravity always pulls objects toward the center of Earth .
5. Without gravity, a Grade 3 student's jump would never bring them back down .