

# Forces in Action

Read how pushes, pulls, and gravity make objects move.

**SC.5.P.13.1** "Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## 1 READ AND MARK \_\_\_\_\_ Read it twice

**YOUR JOB** Underline each sentence that tells what caused an object to move. Circle the word *push*, *pull*, or *gravity* in each underlined sentence.

### Field Day Forces

- ① At a school field day, Maya watched a beanbag launch from a ramp. Her partner pushed the beanbag with a flat hand, so it started moving forward. A push is a force that can make an object move. When the beanbag hit the grass, it slowed because the grass pushed against its motion. Forces can change an object's motion in different ways.
- ② Nearby, a student pulled a wagon by its handle. The pull made the wagon roll toward the student. Pulls, like pushes, are forces. At the top of a slide, a soccer ball stayed still until a student let go. Gravity pulled the ball toward Earth, causing it to roll down the slide. Gravity acts on every object, even before it begins to fall.
- ③ Later, Maya held a tennis ball above a bucket. While she held it, her hand supported the ball. When she opened her hand, gravity pulled the ball downward. The ball fell into the bucket without anyone pushing it down. A force does not have to come from a person's hands. Gravity is a familiar pull that causes falling objects to move toward Earth.

**2 ANSWER WITH EVIDENCE** \_\_\_\_\_ Use the passage

**1** What force started the beanbag moving forward?

**2** What made the wagon roll toward the student?

**3** What force caused the soccer ball to roll down the slide?

**4** Why did the tennis ball fall into the bucket after Maya opened her hand?

**3 YOUR TURN** \_\_\_\_\_ Your own words

Draw a three-panel action sequence. Show an object at rest in Panel 1, show a push or pull making it move in Panel 2, and show a different object falling because of gravity in Panel 3. Label each force with an arrow, then explain the forces below the panels.

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**PART 1 • READ AND MARK**

Underline each sentence that tells what caused an object to move. Circle the word *push*, *pull*, or *gravity* in each underlined sentence. Accept any marking that follows this job and points at the right text.

**PART 2 • ANSWERS**

| # | QUESTION                                                                 | ANSWER                                                                                        |
|---|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1 | What force started the beanbag moving forward?                           | <b>A push from Maya's partner's hand started the beanbag moving forward.</b>                  |
| 2 | What made the wagon roll toward the student?                             | <b>The student pulled the wagon by its handle.</b>                                            |
| 3 | What force caused the soccer ball to roll down the slide?                | <b>Gravity pulled the soccer ball toward Earth.</b>                                           |
| 4 | Why did the tennis ball fall into the bucket after Maya opened her hand? | <b>Gravity pulled the tennis ball downward toward Earth after Maya stopped supporting it.</b> |

**PART 3 • YOUR TURN (SAMPLE ANSWER)**

Panel 1 shows a toy car sitting still. Panel 2 shows a hand pushing the toy car forward, with an arrow labeled push. Panel 3 shows an apple falling from a tree, with a downward arrow labeled gravity. The hand's push makes the toy car move forward. Gravity pulls the apple downward toward Earth.

Accept answers that correctly identify a push, a pull, or gravity as the force described in the passage. For the open task, accept any accurate sequence with clear force labels and an explanation that matches the drawings.