

Forces at Work

Read how pushes, pulls, gravity, and magnets change motion.

2.2 “The student will investigate and understand that different types of forces may cause an object’s motion to change. Key ideas include forces from direct contact can cause an object to move; some forces, including gravity and magnetism...”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the words that tell about a force from direct contact, and circle the words that tell about a force that works from a distance. This helps you compare how forces change motion.

Maya’s Force Hunt

- ① At recess, Maya rolls a ball by pushing it with her foot. Her foot touches the ball, so this is a direct-contact force. A friend catches the ball and stops it with both hands.
- ② Later, Maya lifts a beanbag onto a low wall. When she lets go, gravity pulls the beanbag down without touching it. At the science table, a magnet pulls a paper clip closer without touching the clip.
- ③ Forces help people do jobs each day. A stroller moves when an adult pushes its handle. A refrigerator magnet holds a note on a metal door. Gravity brings a dropped apple to the ground. Each force changes an object’s motion or keeps it in place.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What direct-contact force makes the ball move at recess?

2 Name the two forces in the passage that work from a distance. What does each force move?

3 How does pushing the stroller handle help the adult?

3 YOUR TURN _____ Your own words

Draw two scenes that show forces in your life. In one panel, show a direct-contact force. In the other panel, show gravity or magnetism working from a distance. Write one sentence under each panel.



PART 1 • READ AND MARK

Underline the words that tell about a force from direct contact, and circle the words that tell about a force that works from a distance. This helps you compare how forces change motion. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What direct-contact force makes the ball move at recess?	Maya pushes the ball with her foot.
2	Name the two forces in the passage that work from a distance. What does each force move?	Gravity pulls the beanbag down. A magnet pulls the paper clip closer.
3	How does pushing the stroller handle help the adult?	Pushing the handle makes the stroller move.

PART 3 • YOUR TURN (SAMPLE ANSWER)

I push a toy car with my hand, and it rolls forward. A magnet pulls a paper clip closer without touching it. Accept any accurate direct-contact example in which objects touch and motion changes. For the distance example, accept gravity or magnetism that changes motion without contact.