

Push, Pull, Change

Read how forces can change motion and shape.

SC.2.P.13.1 "Investigate the effect of applying various pushes and pulls on different objects."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each push or pull in the passage, then circle the words that tell what happened to the object.

Maya Tests Forces

- ① During recess, Maya tested a toy car, a sponge ball, and a wagon. She used gentle and strong pushes and pulls. Each object was on the same flat floor, so Maya could compare what happened after each force.
- ② A gentle push made the toy car roll a short distance. A stronger push made it roll farther and faster. When Maya pulled the car with a string, it rolled toward her. The car changed motion because of the pushes and pull.
- ③ Maya pressed the sponge ball with her hand. A gentle push changed its shape a little, while a stronger push flattened it more. She pulled the wagon's handle. The wagon moved toward Maya, but it moved slowly because it was loaded with books.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 How did a stronger push change the toy car's motion compared with a gentle push?

2 What happened to the sponge ball when Maya used a stronger push?

3 What pull did Maya use on the wagon, and how did the wagon move?

3 YOUR TURN _____ Your own words

Choose two safe classroom objects. Test a push and a pull on each object, then complete the table with what happened.

OBJECT	PUSH AND EFFECT	PULL AND EFFECT

PART 1 • READ AND MARK

Underline each push or pull in the passage, then circle the words that tell what happened to the object. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	How did a stronger push change the toy car's motion compared with a gentle push?	The stronger push made the car roll farther and faster. The gentle push made it roll a short distance.
2	What happened to the sponge ball when Maya used a stronger push?	The stronger push flattened the sponge ball more.
3	What pull did Maya use on the wagon, and how did the wagon move?	Maya pulled the wagon's handle. The wagon moved toward her slowly.

PART 3 • YOUR TURN (SAMPLE ANSWER)

OBJECT	PUSH AND EFFECT	PULL AND EFFECT
Pencil case	It slid away from me.	It slid toward me.
Paper cup	It slid farther away with a stronger push.	It moved toward me when I pulled it.

Accept reasonable observations for two safe objects. Effects may include a change in direction, distance, speed, or shape.