Car Path Lab

Notice how tested devices affect a moving car.

S2P2.b "Design a device to change the speed or direction of an object."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline each device Mina makes. Circle the words that tell how the device changes the car's speed or direction.

Mina Tests Toy Car Devices

1. During recess, Mina rolled a toy car across the floor. It moved too fast near a wall. She wanted a device that would slow the car without stopping it. Mina chose cardboard, tape, and a sponge.
2. She taped the sponge across a low cardboard ramp. Then she rolled the car down the ramp. The car pressed into the sponge and came out moving more slowly. A second test showed the same result.
3. Next, Mina placed a curved strip of cardboard at the end of another ramp. The car bumped the curved strip and turned left. Mina moved the strip farther away and tested again. The car still turned left, but later.

2 ANSWER WITH EVIDENCE

Use the passage

1. Which device did Mina use to slow the car, and where did she put it?

2. Which device would Mina use to make the car turn, and which way did the car turn?

3. Mina moved the curved strip farther away. How did that change when the car turned?

3 YOUR TURN

Your own words

Design a device that changes the direction of a toy car. In Panel 1, draw the car moving toward your device. In Panel 2, draw the car after it touches the device, use arrows to show its new direction, and write one sentence explaining what your device does.

ANSWER KEY

Car Path Lab

GRADE 2 · S2P2.b

PART 1 · READ AND MARK

Underline each device Mina makes. Circle the words that tell how the device changes the car's speed or direction. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Which device did Mina use to slow the car, and where did she put it?	**She used a sponge taped across a low cardboard ramp.**
2	Which device would Mina use to make the car turn, and which way did the car turn?	**She would use the curved cardboard strip. The car turned left.**
3	Mina moved the curved strip farther away. How did that change when the car turned?	**The car turned later.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Panel 1: A toy car rolls toward a curved cardboard bumper. Panel 2: The car moves right after hitting the bumper. The curved bumper changes the car's direction.

Accept the passage-based answers or equivalent wording. For the design, accept any safe, plausible device, such as a cardboard bumper or block, that clearly changes the car's direction and includes arrows and an explanation.