

Test the Track

Students use simple test results to choose designs that meet a speed or direction goal.

K-PS2-2 "Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.
Clarification Statement: Examples of problems requiring a solution could include having a marble or other..."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 SPEED TESTS

a	2	5	8
b	6	3	4
c	7	5	1

2 TURN TESTS

a	LEFT	RIGHT	STRAIGHT
b	RIGHT	LEFT	STRAIGHT

HOW TO RUN THIS PAGE

Read each test story and the choices aloud. Students circle the data result that shows the design worked for the stated goal, using distance in the same amount of time as evidence of speed.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • SPEED TESTS

SAY “Each number tells how many spaces an object moved in one count after a push. Listen to each test story, then circle the result that meets the goal.”

ROW	SAY	STUDENTS CIRCLE
a	Three track designs moved an object 2, 5, and 8 spaces in one count. If the goal is the fastest move, which result should you circle?	8
b	Three ramp designs moved an object 6, 3, and 4 spaces in one count. If the goal is to move 3 spaces, which result should you circle?	3
c	Three track designs moved an object 7, 5, and 1 space in one count. If the goal is the slowest move, which result should you circle?	1

PART 2 • TURN TESTS

SAY “Each word tells where an object went after a push through a turn design. Listen to the path goal, then circle the result that shows the design worked.”

ROW	SAY	STUDENTS CIRCLE
a	Three turn designs made an object go LEFT, RIGHT, and STRAIGHT. If the path goal is to turn right, which result should you circle?	RIGHT
b	Three turn designs made an object go RIGHT, LEFT, and STRAIGHT. If the path goal is to turn left, which result should you circle?	LEFT

WHAT TO ACCEPT

Speed Tests: circle 8, 3, and 1. Turn Tests: circle RIGHT, then LEFT. Accept only one clear circle in each row.