Push Test

Record a book's movement, then decide which push gave enough force to move it.

K.2 "Analyze data from investigations to determine whether a design solution provides sufficient force to change the speed or direction of an object."

NAME _____ DATE _____

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

1 RECORD IT

soft	
firm	

2 USE RESULTS

a	**still**	**moved**	**turned**
b	**soft**	**both**	**firm**

Push Test

HOW TO RUN THIS PAGE

Place a book on a desk where all students can see it. Give it a soft push that leaves it still, then stop and reset it before a firm push that makes it move. Students record what they see and use their results to decide which push changed the book's 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 · RECORD IT

SAY "Watch me push this book softly and then firmly. I will stop it before the second push. In each box, write 0 if the book stays still or 1 if it starts moving."

- Box 1 (beside soft): **0**
- Box 2 (beside firm): **1**

PART 2 · USE RESULTS

SAY "Look at the numbers you wrote. Use what you saw to answer each question."

ROW	SAY	STUDENTS CIRCLE
a	What happened to the book after the soft push? Circle still, moved, or turned.	**still**
b	Which push had enough force to make the still book start moving? Circle soft, both, or firm.	**firm**

WHAT TO ACCEPT

The expected record is soft: 0, firm: 1. Students circle still, then firm. Check responses against the movement students actually observed, and repeat a test if its result was unclear.