

Push Path Lab

Students connect object features to motion during a teacher-led investigation.

SKP2.a "Plan and carry out an investigation to determine the relationship between an object's physical attributes and its resulting motion (straight, circular, back and forth, fast and slow, and motionless) when a force is applied."

NAME _____

DATE _____

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

1 NOTICE PARTS

BOOK

•

•

HINGES

DOOR

•

•

JOINTS

HAND

•

•

FLAT

2 TEST MOTION

a

STRAIGHT

CIRCLE

**BACK-
FORTH**

b

**BACK-
FORTH**

CIRCLE

STRAIGHT

c

CIRCLE

STRAIGHT

**BACK-
FORTH**

HOW TO RUN THIS PAGE

Use a flat book on a clear tabletop, the classroom door, and students' hands for this investigation. Students first notice a feature of each object, then observe or make a motion after a force is applied and record the result.

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

PART 1 • NOTICE PARTS

SAY “We will test a book, a door, and a hand. Can you draw a line from each thing to the word that tells about it?”

- **BOOK** matches **FLAT**
- **DOOR** matches **HINGES**
- **HAND** matches **JOINTS**

PART 2 • TEST MOTION

SAY “We will test each thing. Watch or try each test, then circle the motion word that tells what happened.”

ROW	SAY	STUDENTS CIRCLE
a	Watch me push the flat book forward across the clear table. Which motion word fits: STRAIGHT, CIRCLE, or BACK-FORTH? Circle it.	STRAIGHT
b	Watch the outside edge as I gently push the hinged classroom door. Which motion word fits: BACK-FORTH, CIRCLE, or STRAIGHT? Circle it.	CIRCLE
c	Move your hand left and right from your wrist. Which motion word fits: CIRCLE, STRAIGHT, or BACK-FORTH? Circle it.	BACK-FORTH

WHAT TO ACCEPT

Match BOOK to FLAT, DOOR to HINGES, and HAND to JOINTS. Circle STRAIGHT for the book, CIRCLE for the door's outside edge, and BACK-FORTH for the hand.