

# Push Test Detectives

Students match investigation tools, then plan and record a simple book-push test.

**1.1** "Scientific and engineering practices. The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena..."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

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

## 1 TOOL MATCH

**Notebook**

•

•

**Supplies**

**Goggles**

•

•

**Notes**

**Tray**

•

•

**Eyes**

## 2 PUSH TEST

a

**Distance?**

**Color?**

**Shape?**

b

**Gentle**

**Same**

**Hard**

c

**Gentle**

**Hard**

**Same**

**HOW TO RUN THIS PAGE**

Read each part aloud and give students time to make one mark for each task. In the second part, partners use the same book and starting spot to compare a gentle push and a hard push, then use their observation as evidence.

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

**PART 1 • TOOL MATCH**

**SAY** “I will read each tool and each job. Draw a line from each tool on the left to the job it helps with on the right.”

- **Notebook** matches **Notes**
- **Goggles** matches **Eyes**
- **Tray** matches **Supplies**

**PART 2 • PUSH TEST**

**SAY** “We will test a gentle push and a hard push with one book. Use the same starting spot, and keep your hands away while your partner pushes. Watch which push moves the book farther.”

| ROW | SAY                                                                                                          | STUDENTS CIRCLE  |
|-----|--------------------------------------------------------------------------------------------------------------|------------------|
| a   | Which question can our push test answer? I will read the words. Circle the question word that fits our test. | <b>Distance?</b> |
| b   | After you test both pushes, which word tells which push moved the book farther? Circle your evidence.        | <b>Hard</b>      |
| c   | Which word should we record in our notebook to show what we saw? Circle the word that matches your test.     | <b>Hard</b>      |

**WHAT TO ACCEPT**

Tool Match: Notebook to Notes, Goggles to Eyes, Tray to Supplies. Push Test answers are Distance?, Hard, and Hard. If a pair's controlled test has a different observed result, accept that result for the last two rows if the students used the same book and starting spot.