Bridge Builders

Students use test data to choose a design and share evidence.

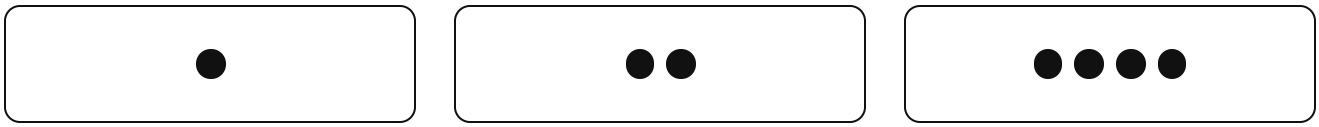
1.3 "Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions..."

NAME _____ DATE _____

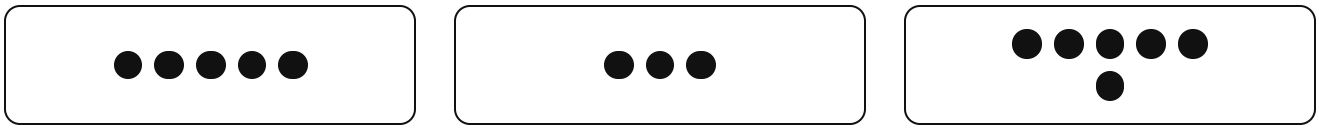
Teacher: this page is run aloud. The script and answers are on the guide page.

1 TEST DATA

a



b

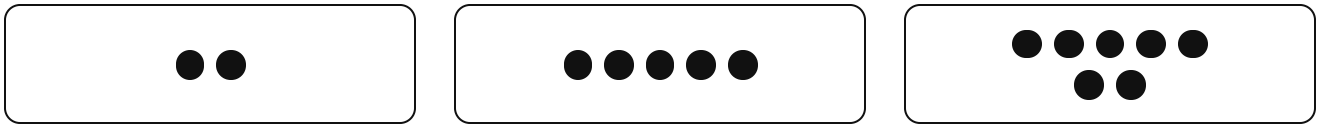


2 SHARE IDEA

a

flat	folded	both

b



ANSWER KEY

Bridge Builders

GRADE 1 · TEKS 1.3

HOW TO RUN THIS PAGE

Show two simple paper-strip bridge models across two books, one flat and one folded lengthwise. Read the test data aloud, then have students use the marks on the page to show their evidence-based choice and discuss it with a partner.

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

PART 1 · TEST DATA

SAY "Look at the dot groups in each row. Listen to the test result, then circle the dots that show the number of paper clips."

ROW	SAY	STUDENTS CIRCLE
a	The flat paper bridge held 2 paper clips before it bent. Which dots show 2? Circle them.	**2 dots**
b	The folded paper bridge held 5 paper clips before it bent. Which dots show 5? Circle them.	**5 dots**

PART 2 · SHARE IDEA

SAY "Tell your partner which bridge you choose and the number that supports your idea. Take turns speaking and listening, then answer each question by circling one choice."

ROW	SAY	STUDENTS CIRCLE
a	The flat bridge held 2 clips, and the folded bridge held 5 clips. Which design would you choose to hold more clips? Circle your choice.	**folded**
b	Listen to your partner's reason. Which dots show the number that supports choosing the bridge that held more clips? Circle them.	**5 dots**

WHAT TO ACCEPT

Answers are 2 dots, 5 dots, folded, and 5 dots. Accept an oral explanation that the folded bridge is the better choice because it held 5 clips, which is more than 2 clips.