Book Bridge Builders

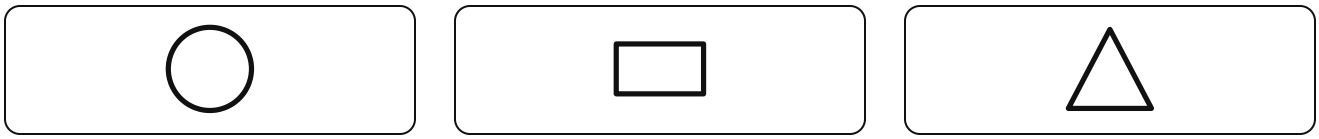
Build a bridge from books, then study what happens when one part is missing.

P.K.5B "Students will demonstrate an understanding of how solid objects can be constructed from a smaller set. Use basic shapes and spatial reasoning to model large objects in the environment using a set of small objects (e.g., blocks…"

NAME _____ DATE _____

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

1 LOOK CLOSELY

a 

b

no	yes	maybe

2 COUNT PARTS

before	
after	

ANSWER KEY

Book Bridge Builders

HOW TO RUN THIS PAGE

Give each small group three classroom books and a space to build. Have each student take a turn making the bridge, then listen to each student's explanation of how its parts work together.

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

PART 1 · LOOK CLOSELY

SAY "Put two books flat with a small space between them. Set the third book across the space. Take turns building the bridge, then listen and circle."

ROW	SAY	STUDENTS CIRCLE
a	Which shape looks most like the flat front of one of your books? Circle one shape.	**rectangle**
b	Put the top book aside. Is a book still crossing the space? The choices are no, yes, and maybe. Circle one word.	**no**

PART 2 · COUNT PARTS

SAY "Put the top book back. How many books make your bridge? Write the number in the before box. Put the top book aside again. How many books are left? Write the number in the after box. Tell me what the missing book did and why your bridge changes without it."

- Box 1 (beside before): **3**
- Box 2 (beside after): **2**

WHAT TO ACCEPT

Accept rectangle, no, 3, and 2. For the oral response, accept an explanation that the top book covered the space and that removing it leaves no book across it. Record whether each student explained this independently or with support.