

Design Test Lab

Students use test results to decide whether a design meets its goal.

1.2.D "evaluate a design or object using criteria to determine if it works as intended."

NAME _____

DATE _____

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

1 PICK A DESIGN _____

a	A	B	C
b	A	B	C
c	A	B	C

2 SHOW THE CHECK _____

A	
B	

HOW TO RUN THIS PAGE

A design is judged by its goal and by what happens in a test. For example, a basket meant to hold two balls works if two balls stay inside during the test. Read each test result aloud, then have students mark their choices.

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

PART 1 • PICK A DESIGN

SAY “Each row shows the letters A, B, and C. Listen to the goal and test results, then circle the design that works as intended.”

ROW	SAY	STUDENTS CIRCLE
a	A pencil holder must hold four pencils. Design A held four pencils, Design B held two pencils, and Design C held three pencils. Which design works as intended?	A
b	A book stand must hold three books. Design A held one book, Design B held three books, and Design C held two books. Which design works as intended?	B
c	A paper tray must hold five sheets of paper. Design A held three sheets, Design B held four sheets, and Design C held five sheets. Which design works as intended?	C

PART 2 • SHOW THE CHECK

SAY “Now listen to two bridge tests, and write Y if a bridge meets every goal or N if it misses a goal. Design A must hold three paper clips and stay flat, and it holds three clips but bends down. What letter will you write in box A? Design B must hold three paper clips and stay flat, and it holds three clips and stays flat. What letter will you write in box B?”

- Box 1 (beside A): **N**
- Box 2 (beside B): **Y**

WHAT TO ACCEPT

Circle A, then B, then C. In the boxes, A is N and B is Y. Accept uppercase or lowercase letters.