

Light Makes Shadows

Teacher-led observations help students connect blocked light to shadows.

K.8.b "shadows can be produced when sunlight or artificial light is blocked by an object; and"

NAME _____

DATE _____

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

1 CIRCLE IT _____

a	YES	NO	MAYBE
b	MAYBE	NO	YES
c	MAYBE	NO	YES

2 WRITE Y OR N _____

1	
2	

HOW TO RUN THIS PAGE

Run the demonstrations in a sunny outdoor spot or at a sunny window, then under a classroom artificial light. Students watch a hand or book block light, then mark whether a shadow is made. Read every choice and question aloud.

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

PART 1 • CIRCLE IT

SAY “Watch each light test carefully. For each row, I will read YES, NO, and MAYBE, then listen to the question and circle your answer.”

ROW	SAY	STUDENTS CIRCLE
a	At our sunny spot, I hold a book between sunlight and the ground. Does blocking sunlight with the book make a shadow?	YES
b	Under our classroom light, I hold my hand above the table. Does my hand block artificial light to make a shadow?	YES
c	I move my hand away so it is not between the classroom light and the table. Is my hand blocking light to make a shadow?	NO

PART 2 • WRITE Y OR N

SAY “Watch the book and the light for each test, then write Y if the book blocks light and makes a shadow or N if it does not. For box 1, watch as I hold the book between sunlight and the ground, then for box 2, watch as I hold it to the side, not between the light and the ground. What letter will you write in each box?”

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

WHAT TO ACCEPT

Circle-row answers are YES, YES, NO. In the boxes, accept Y for box 1 and N for box 2, in either uppercase or lowercase.