Shadow Switch

Observe how a hand's shadow changes when the light is on a different side.

P.1.6A.2 "Use evidence from observations to explain how shadows form and change with the position of the light source.* (Just for demonstration purpose)"

NAME _____ DATE _____

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

1 LOOK AND CIRCLE

a

hand	**light**	**paper**

b

right	**under**	**left**

2 MOVE AND TELL

light	
shadow	

ANSWER KEY

Shadow Switch

GRADE 1 · P.1.6A.2

HOW TO RUN THIS PAGE

Use one classroom ceiling light and each student's hand above this worksheet. Place students where that light makes a clear shadow, first to its left and then to its right. Listen to each student's explanation, and record any prompt you give separately.

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 AND CIRCLE

SAY "Face the front of the room and stand to the left of the ceiling light. Hold your hand above this paper and look at its shadow."

ROW	SAY	STUDENTS CIRCLE
a	Which thing blocks the light so a shadow appears on the paper? Circle one.	**hand**
b	Where does the shadow fall compared with your hand? Circle left, right, or under.	**left**

PART 2 · MOVE AND TELL

SAY "Now stand to the right of the same light. Face the front of the room and hold your hand above this paper again. Write L for left or R for right in each box, then tell me what changed and why."

- Box 1 (beside light): **L**
- Box 2 (beside shadow): **R**

WHAT TO ACCEPT

Accept the circled and written directions when they match the shadow students actually observe. For the oral explanation, listen for evidence that the hand blocked the light and that moving to the other side of the light changed which side of the hand the shadow fell on.