

Light Look Lab

Students observe when an object is visible and compare direct light with shade.

K.8.A "communicate the idea that objects can only be seen when a light source is present and compare the effects of different amounts of light on the appearance of objects; and"

NAME _____

DATE _____

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

1 SEE IT _____

a	YES	NO	MAYBE
b	YES	NO	MAYBE

2 MORE LIGHT _____

a	LIT	SAME	SHADE
b	LIT	SHADE	SAME
c	BRIGHT	SAME	DIM

HOW TO RUN THIS PAGE

Before starting, place a pencil in an opaque, fully sealed classroom container that you have verified is light-tight. For the second part, place one white sheet of paper under a ceiling light and hold a book above one half to make a clear shadow, while leaving the other half in direct light. Students communicate their observations by circling large printed words.

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

PART 1 • SEE IT

SAY “Look at the pencil on the desk while the ceiling lights are on. Then look again after I close the pencil inside the checked light-tight container. Listen to each question and circle one word.”

ROW	SAY	STUDENTS CIRCLE
a	While the ceiling lights are on and the pencil is on the desk, can you see the pencil? The choices are YES, NO, and MAYBE. Which word will you circle?	YES
b	After the pencil is closed inside the checked light-tight container, can you see the pencil? The choices are YES, NO, and MAYBE. Which word will you circle?	NO

PART 2 • MORE LIGHT

SAY “Look at the white paper. One half is in direct ceiling light. One half is in the book's shadow, so it gets less light. Listen to each question and circle one word.”

ROW	SAY	STUDENTS CIRCLE
a	The LIT half is in direct ceiling light, and the SHADE half is under the book's shadow. Which half looks brighter? The choices are LIT, SAME, and SHADE. Which word will you circle?	LIT
b	Which half looks dimmer? The choices are LIT, SHADE, and SAME. Which word will you circle?	SHADE
c	Compared with the SHADE half, how does the LIT half look? The choices are BRIGHT, SAME, and DIM. Which word will you circle?	BRIGHT

WHAT TO ACCEPT

Part 1 answers are YES, then NO. Part 2 answers are LIT, SHADE, then BRIGHT. Use a truly light-tight container for the second Part 1 observation, not a loose book or cover.