

Sun and Shade

Teacher-led observations of light, warmth, and shadows.

K.8 "The student will investigate and understand that light influences temperature on Earth's surfaces and can cause shadows. Key ideas include the sun provides light and warms Earth's surface..."

NAME _____

DATE _____

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

1 CIRCLE WORDS

a	SHADE	SUN	DARK
b	AROUND	BLOCKED	THROUGH
c	BOOK	PAPER	SUN

2 MATCH RESULTS

SUN	•	•	SHADOW
SHADE	•	•	WARM
PENCIL	•	•	COOL

HOW TO RUN THIS PAGE

Before students begin, place two identical paper squares side by side in direct sunlight. Prop an open book so its shadow covers one square without touching either square, and leave both squares in place for 15 minutes. Then compare the squares carefully and hold a pencil in direct sunlight above a sheet of paper to make a dark shape.

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 WORDS

SAY “Look at the two paper squares. I will carefully compare how warm they feel, then I will hold a pencil in sunlight above a sheet of paper. Listen to each question and circle one word.”

ROW	SAY	STUDENTS CIRCLE
a	Which word tells where the warmer paper square was, SHADE, SUN, or DARK? Circle it.	SUN
b	When the pencil made a dark shape on the paper, did sunlight go AROUND the pencil, get BLOCKED by it, or go THROUGH it? Circle the word you choose.	BLOCKED
c	Which one makes its own light that can make a shadow, BOOK, PAPER, or SUN? Circle it.	SUN

PART 2 • MATCH RESULTS

SAY “Draw a line from each word on the left to the word on the right that matches what we observed. I will read all of the words before you draw your lines.”

- **SUN** matches **WARM**
- **SHADE** matches **COOL**
- **PENCIL** matches **SHADOW**

WHAT TO ACCEPT

Part 1 answers are SUN, BLOCKED, and SUN. Part 2 matches are SUN to WARM, SHADE to COOL, and PENCIL to SHADOW.