

Sunlight Surface Detectives

Students compare sunny and shaded surface samples using warmer and cooler.

K-PS3-1 "Make observations to determine the effect of sunlight on Earth's surface. Clarification Statement: Examples of Earth's surface could include sand, soil, rocks..."

NAME _____

DATE _____

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

1 CIRCLE IT _____

a	warmer	cooler	same
b	warmer	cooler	same
c	warmer	cooler	same

2 SHOW IT _____

SUNNY	
SHADE	

HOW TO RUN THIS PAGE

Set up matching samples of sand, soil, and rock, with one of each in direct sunlight and one of each in shade. After the samples have had time to change, guide students to make safe touch observations and compare each sunny sample with its shaded partner.

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 “Think about the matching samples we observed, one in sunlight and one in shade. For each row, listen for the surface and circle the word that tells how the sunny sample felt compared with its shaded partner.”

ROW	SAY	STUDENTS CIRCLE
a	We compared sand in sunlight and sand in shade. Did the sunny sand feel warmer, cooler, or the same as the shaded sand? Which word will you circle?	warmer
b	We compared soil in sunlight and soil in shade. Did the shaded soil feel warmer, cooler, or the same as the sunny soil? Which word will you circle?	cooler
c	We compared rock in sunlight and rock in shade. Did the sunny rock feel warmer, cooler, or the same as the shaded rock? Which word will you circle?	warmer

PART 2 • SHOW IT

SAY “The word SUNNY or SHADE is beside each box. Think about the rock pair. How did each labeled place feel compared with the other place? Write W for warmer or C for cooler in each box.”

- Box 1 (beside SUNNY): **W**
- Box 2 (beside SHADE): **C**

WHAT TO ACCEPT

Circle-row answers are warmer, cooler, warmer. In the boxes, accept W beside SUNNY and C beside SHADE, in either uppercase or lowercase.