# Sun and Shade

Model day and night, then build and test a paper shade.

**E.K.8B** "Students will demonstrate an understanding that the Sun provides the Earth with heat and light. With teacher guidance, generate and answer questions to develop a simple model..."

NAME _____ DATE _____

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

## 1 THINK AND CIRCLE

| | | | |
|---|---|---|---|
| a | day | rain | night |
| b | light | day | night |
| c | soil | shade | water |

## 2 TEST AND CHANGE

| | |
|---|---|
| warm | |
| change | |

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## HOW TO RUN THIS PAGE

Use this sheet on a sunny day with a book, a loose sheet of paper, and a pencil. Guide students as they use a fist to model day and night, then help them ask a test question and build a shade for one hand. Note any help given with asking the question or writing the words 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 · THINK AND CIRCLE

**SAY** "Use your fist as Earth and imagine I am the Sun. Turn one side of your fist toward me, then turn that side away. Listen to each question and circle one word."

| ROW | SAY | STUDENTS CIRCLE |
|---|---|---|
| a | When your side of Earth faces the Sun, is it day, rain, or night? Circle one word. | **day** |
| b | When your side of Earth turns away from the Sun, is it light, day, or night? Circle one word. | **night** |
| c | Which can you make with paper to block sunlight from your hand, soil, shade, or water? Circle one word. | **shade** |

## PART 2 · TEST AND CHANGE

**SAY** "Ask a question about what shade might do to a hand in sunlight, then hold one hand in the sun and use a book to shade your other hand for one minute. Write which hand feels warmer in the first box, then make a paper shade, test it over your hand, change it to cover more of your hand, and test it again. Write one word about your change in the second box."

- Box 1 (beside warm): **sun, shade, or same, based on the student's observation**
- Box 2 (beside change): **A word describing the change the student made, such as big, wide, or long**

## WHAT TO ACCEPT

Circle answers are day, night, and shade. Accept the student's observed result in the first box and a word that matches the change made to the paper shade in the second; observe the question, construction, and tests.