Shadow Test

Students plan and compare shadows made by paper and a book.

1.3 "Plan and carry out investigations to determine how light is affected when it interacts with various types of materials."

NAME _____ DATE _____

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

1 PLAN IT

a

height	**light**	**material**

b

height	**material**	**shadow**

2 TEST IT

paper	
book	

ANSWER KEY

Shadow Test

GRADE 1 · 1.3

HOW TO RUN THIS PAGE

Read the questions aloud, then guide students as they test a sheet of paper and a book under the classroom light. Students plan what to change and what to keep the same, then record what they see in each shadow.

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

PART 1 · PLAN IT

SAY "We will use a sheet of paper and a book to make shadows on the desk. Listen to each question and circle one answer."

ROW	SAY	STUDENTS CIRCLE
a	What will we change in our test: the height, the classroom light, or the material? Circle what we will change.	**material**
b	What should we keep the same for both tests: the height, the material, or the shadow? Circle what we should keep the same.	**height**

PART 2 · TEST IT

SAY "Hold one sheet of paper a hand's width above the same spot on your desk under the classroom light. Look at its shadow, not at the light. Hold a book at the same height over that spot and look again. In each box, write light or dark to tell how its shadow looks."

- Box 1 (beside paper): **Student writes light or dark based on the observed paper shadow.**
- Box 2 (beside book): **Student writes light or dark based on the observed book shadow.**

WHAT TO ACCEPT

Plan It: material, then height. For Test It, accept each student's observed result; the book will usually make a darker shadow than one sheet of paper.