

Grade 2

Me and My Shadow



Children's natural curiosity leads them to explore the world by observing natural phenomena and manipulating common objects and materials in their environment. During this series of learning experiences, students engage in the study of shadows cast by objects blocking the natural light of the Sun as well as shadows cast by everyday objects blocking the light from artificial sources.

Through concrete experiences, students discover that objects do not all interact with light in the same manner. Some objects allow light to pass through easily while others block light and still others allow only some light to pass through. These differences are related to the appearance of shadows that form when these objects are placed into light. While observing the changing position of the Sun throughout the day, students compare the size and position of their own shadows to identify distinct patterns of change. By observing and collecting data, manipulating materials to perform fair tests, and analyzing patterns of resulting change, students continue their quest to explain how their own world works.

Table of Contents

	page
♦ Interdisciplinary Connections Language Arts, Mathematics, Art, Physical Education	1
♦ Overview of Learning Experiences Targeted Science TEKS, Engage, Explore, Explain, Elaborate, Evaluate	2
♦ Engage Students participate in introductory activities to capture their interest about a problem or phenomenon and make connections to prior knowledge and experiences.	3
♦ Explore Students manipulate materials during hands-on activities to explore the concept further while sharing their observations and ideas with others.	6
♦ Explain Students communicate their findings from the explore activity as the teacher guides the discussion using effective questioning strategies, introducing new terms as appropriate, and clarifying any misunderstandings.	9
♦ Elaborate Students apply, extend, and enhance their understanding by participating in additional active learning opportunities.	12
♦ Evaluate Students demonstrate their understanding of concepts.	21
♦ Materials Details Sheet List and description of items required for each section of the learning experience.	26
♦ Background Information for Teachers General summary of content information for teachers.	28
♦ Content Area TEKS Texas Essential Knowledge and Skills statements for each of the content areas addressed in this learning experience.	29
♦ Reading Connections List of suggested books and stories for students about shadows.	33
♦ References List of books and articles researched by developers of this learning experience.	34
♦ Master Copies of Student Materials Copies of student sheets and materials to be copied by teacher when using this learning experience.	A-L