



1st Grade Science Pacing Guide

FIRST QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
Weeks 1-3 Social Studies: Rules and Laws (Weeks 1&2), Culture (Week 3)				
Unit 1: Light & Shadows Module: See Objects	Weeks 4-5	Lesson 1: Light	1.PS4.1 1.ETS1.2	In this module, students will explore the interaction of light and materials. They will learn that light illuminates, passes through some objects, and casts shadows. I can explain how shadows are made. Students will make observations and construct explanations to observe what causes objects to be seen when illuminated. I can observe and explain what causes objects to be seen when illuminted.
Weeks 6-7 Social Studies: Culture				
Unit 1: Light & Shadows Module: See Objects	Weeks 8-9	Leson 2: Light and Materials	1.PS4.2 1.ETS1.1	Students will carry out investigations to determine the effect of placing objects I the path of a beam of light. I can investigate what happens when objects are in the path of a beam of light. Students will use what they learned throughout the module to explain how light and how it is interacting with the materials of the structure. I can explain how light interacts with different materials.

SECOND QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
Weeks 1-2 Social Studies: History/Good Citizens				
Unit 5: Weather & the Sun Module: The Sun and Earth's Surface	Weeks 3-4	Lesson 1: Sunlight on Earth's Surface	1.PS3.1 1.PS4.1	In this module, students will determine how sunlight affects Earth's surface and how to reduce the warming effect of sunlight. I can determine how sunlight affects Earth's surface. Students will carry out investigations to explain the effect of sunlight on Earth's surface. I can make observations and complete investigations to explain the effect of sunlight on Earth's surface.
Weeks 5-6 Social Studies: Culture/History				
Unit 2: All About Plants Module: Plant Structures and Functions	Week 7	Lesson 1: Plant Parts	1.LS1.1	In this module, students will learn how plant structures help plants live. I can explain how plant parts help plants survive. Students will make observations of plants to construct explanations of their external parts and how their structures help them survive. I can construct explanations of the plants external parts and how they help keep the plants alive.
Unit 2: All About Plants Module: Plant Structures and Functions	Week 8	Lesson 2: Functions of Plant Parts	1.LS1.1 1.LS1.3 1.ETS1.3	Students will make observations of plants to construct explanations of their external parts and how plant structures are related to their functions and help them survive. I can explain how a plants structures are related to their functions and help keep them alive. Students will use what they learned throughout the module to explain how structures of a pant help it to survive. I can explain how structures of a plant help it to survive.

THIRD QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
Unit 2: All About Plants Module: Plant Parents and Their Offspring	Week 1	Lesson 1: Plants and Their Parents	1.LS1.2 1.ETS1.1	In this module, students will develop the understanding that plants have almost identical structures to their parents and that these structures help the plants survive. I can develop an understanding that plants structures and their parents structures are the same. Students will construct explanations about patterns found when exploring plants and their offspring. I can explain the patterns found when exploring plants and their offspring.
Unit 2: All About Plants Module: Plant Parents and Their Offspring	Week 2	Lesson 2: Plant Survival	1.LS2.1	Students will analyze and interpret data about how a plant's structure and function helps it survive and grow. I can explain how a plant's structure and function helps it survive and grow. Students will use what they have learned throughout the module to explain how plants survive and reproduce. I can explain how plants survive and reproduce.
Weeks 3-5 Social Studies: History				
Unit 3: Living Things & Habitats Module: Plants in Landscapes	Weeks 6-7	Lesson 1: What Plants Need	1.LS2.1 1.LS2.2	In this module, students will make observations to learn about the needs of plnts and how plants help to make more plants. I can explain how plants are used to make more plants. Students will plan and conduct investigations to determine if plants need sunlight and water to grow. I can plan and conduct an investigation to see if plants need sunlight and water to grow.

Unit 3: Living Things & Habitats Module: Plants in Landscapes	Weeks 7-8	Lesson 2: Plants Depend on Animals	1.LS2.3 1.ETS1.2	Students will develop and use models to show that the structure of plant and animal parts aid in pollination and seed dispersal. I can create a model to show that plant structures and animal structures work together to help spread seeds. Students will revisit the module phenomenon and explain their reasoning. I can explain how plant structures work together with animal structures to help spread seeds.
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Weeks 9-10 Social Studies: History

FOURTH QUARTER				
UNIT	PACING	TOPICS	STANDARDS	LEARNING OBJECTIVES
Unit 4: Sky Patterns Module: Observe the Sky	Week 1	Lesson 1: Objects in the Sky	1.ESS1.1 1.ESS1.2	In this module, students will observe long and short term patterns in the sky. I can make observations about the short and long term patterns in the sky. Students will identify the objects in the sky and make observations about what objects are present during the day and night. I can identify the objects in the sky during the day and at night.
Unit 4: Sky Patterns Module: Observe the Sky	Week 2	Lesson 2: Day and Night Patterns	1.ESS1.1 1.ESS1.3	Students will make observations and predict patterns of day and night. I can predict the patterns of day and night.
Unit 4: Sky Patterns Module: Observe the Sky	Week 3	Lesson 3: Patterns During the Year	1.ESS1.3	Students will recognize patterns that occur over several days, weeks, or months. I can see the patterns in the sky that occur over time. Students will revisit the module phenomenon and explain their reasoning. I can explain the patterns in the sky that occur over time.

Weeks 4-5 Social Studies: Tennessee				
Unit 5: Weather and the Sun Module: The Sun and Earth's Surface	Weeks 6-7	Lesson 2: Protection from the Sun	• 1.PS3.1 • 1.PS4.2 • 1.ETS1.1 • 1.ETS1.2 • 1.ETS1.3	Students will construct explanations and design solutions to reduce the warming effect of sunlight. I can explain how sunlight warms Earth's surface. Students will revisit the module phenomenon and explain how sunlight warms Earth's surface and how to stay safe from sunlight. I can explain how sunlight warms Earth's surface and how to stay safe from sunlight.
Week 8 Social Studies: Culture/Holidays				