

1st Grade Science
Quarter 1
Remote Learning
Practice and Enrichment Packet



Hello SCS Family,

This resource packet was designed to provide students with activities which can be completed at home independently or with the guidance and supervision of family members or other adults. The activities are aligned to the TN Academic Standards for Science and will provide additional practice opportunities for students to develop and demonstrate their knowledge and understanding.

A suggested pacing guide is included; however, students can complete the activities in any order over the course of several days. Below is a table of contents which lists each activity.

Activity	Page Number	Suggested Pacing
Shadows	3-5	Week 1-3
How the Moon Looks	6-8	Week 4-6
The Sun and Earth	9-10	Week 7-9



1st Grade Science Activity: Shadows

Estimated Time	25 minutes
Grade Level Standard(s)	1.ESS1.1: Use observations or models of the sun, moon, and stars to describe patterns that can be predicted. 1.ESS1.3: Analyze data to predict patterns between sunrise and sunset and the change of seasons.
Caregiver Support Option	Help your student by guiding them through the directions. Guide your student through exploring how light shining toward an object from different angles affects the length and direction of the shadow cast by the object.
Materials Needed	craft sticks, modeling clay, paper, flashlight, pencil
Essential Question	What causes the pattern of day and night?
Learning Outcome	Students will be able to explain what causes the pattern of day and night.

Carry Out an Investigation

- 1 Put a craft stick in clay so that it stands up straight.
- 2 Place the clay and craft stick on a piece of paper.
- 3 Shine a light on the craft stick from the left.
- 4 Trace the shadow and label it left.
- 5 Move the flashlight to another spot.
- 6 Trace the new shadow and label it based on where the light came from.

Observe what happens to the shadow when you move the flashlight.





- 7 **Record Data** Draw the light, stick, and shadows. Use the table.

	Shadows
First Shadow	
Second Shadow	



1st Grade Science Activity: How the Moon Looks	
Estimated Time	20 minutes
Grade Level Standard(s)	1.ESS1.1: Use observations or models of the sun, moon, and stars to describe patterns that can be predicted. 1.ESS1.2: Observe natural objects in the sky that can be seen from Earth with the naked eye, and recognize that a telescope, used as a tool, can provide greater detail of objects in the sky.
Caregiver Support Option	Help your student by guiding them through the directions. Provide an opportunity for your student to observe the moon at night and guide him/her through drawing a picture to show what the Moon looks like in the night sky.
Materials Needed	pencil
Essential Question	How does the Moon's shape change from day to day?
Learning Outcome	Students will be able to describe the motion of the moon.



Inquiry Activity

How the Moon Looks

What does the Moon look like in the night sky?

Make a Prediction What shape will the Moon be in the night sky?



Carry Out an Investigation

BE CAREFUL Observe the Moon outside at night with an adult.

- 1 Look at the Moon outside on a clear night.
- 2 **Record Data** Draw a picture of what the Moon looked like.
- 3 Compare it with the pictures of your classmates or someone else.

What is the shape of the Moon?





Name _____ Date _____



Communicate Information

- 1. Communicate** How did your drawing compare to your classmates' drawings?



1st Grade Science Activity: The Sun and Earth

Estimated Time	25 minutes
Grade Level Standard(s)	1.ESS1.1: Use observations or models of the sun, moon, and stars to describe patterns that can be predicted. 1.ESS1.3: Analyze data to predict patterns between sunrise and sunset and the change of seasons.
Caregiver Support Option	Help your student by guiding them through the directions. Guide your student through investigating how Earth's rotation causes day and night.
Materials Needed	See below. You may substitute a round object in place of the globe.
Essential Question	What causes the pattern of day and night?
Learning Outcome	Students will be able to explain what causes the pattern of day and night.

Inquiry Activity

The Sun and Earth

You will investigate how Earth's movement causes day and night.

Make a Prediction How does Earth's movement cause day and night?

Carry Out an Investigation

- 1 Put a sticker or sticky paper where you live on the globe.
- 2 Shine a light on the globe.
- 3 Spin the globe around. Let it stop by itself.
- 4 Observe where the light is shining on the globe.

Materials

- stickers or sticky paper
- globe
- flashlight

The light from the flashlight shining on the globe is a model of the light from the Sun shining on Earth.



Communicate Information

1. Communicate After spinning the globe, is it daytime or nighttime where you live? How do you know?

2. Is it daytime or nighttime on the other side of Earth? How do you know?