

WEEK 1 Lesson 2

Science and Engineering: Introducing Science Journals

S & E Big Ideas	Children can create a science journal for questions and observations to learn about the world around them.
S & E Guiding Question	How do we use science journals to learn about our world?
Content Objective	I can ask a question that can be answered by conducting a science investigation. (Practice 1)
Language Objective	I can ask a question about what I notice to get more information. (SL.1.1c)
Vocabulary	<p>observation: noticing or watching something very carefully to gain information</p> <p>scientist: a person who studies physical, earth, or life sciences</p> <p>science journal: a daily record of science investigations</p>
Materials and Preparation	<ul style="list-style-type: none"> ● Questions Scientists Ask, 1 copy Cut out into strips. ● Types of Scientists cards, from Lesson 1 (1 set per class) ● journals, 1 for each child and teacher’s model This will be a journal that children work in this year. ● Week 1 journal question strips, copied and cut apart, 1 for each child ● glue sticks ● pencils ● colored pencils ● science journal resource, printed, copied and cut out for children to choose from when designing their science journal cover ● magazines, photographs, newspapers, optional, to decorate science journal cover <p>Set up a Teacher Science Journal to use as a model:</p> <ol style="list-style-type: none"> 1. Write your name on the cover. 2. Leave several pages blank, then glue the question strip onto the top

	<p>of the next page.</p> <p>Use the following link to find the relevant information for science journals:</p> <ul style="list-style-type: none"> ● Daylight Hours ● National Weather Service (Enter the schools zipcode in the upper left corner to generate a local forecast) <p>The teacher should use their journal to model a journal entry for the children.</p>
<p>Opening 6 minutes</p>	<p>Revisit the different types of scientists that were introduced in Lesson 1. Repost the different types of scientists and review the names.</p> <p><i>Today we will start thinking like scientists. I will read you some questions. I would like you to think about which scientist would ask that question.</i></p> <p>Read the first question from Questions Scientists Ask. Invite children to turn and talk to select a scientist that would match the question. Repeat this step until all the questions have been matched. [Correct responses are on the slides.]</p>
<p>Discussion 10 minutes</p>	<p><i>Today we will be building a science journal. Like these scientists we have learned about, we will be making observations and recording our observations in our journals. Here is my journal.</i></p> <p>Turn to the first blank page in the Teacher Science Journal and write the title, “First Questions about Science”. Record children’s questions about science. Reflect on similarities, trends, and novel ideas. If needed, use the following prompts:</p> <ul style="list-style-type: none"> ● <i>What is science?</i> ● <i>What will we learn about in science?</i>
<p>Investigation 15 minutes</p>	<p>Distribute journals, question strips, and glue sticks, pencils, and colored pencils.</p> <p>Walk children through setting up their science journals and modeling with the Teacher Science Journal. Pace the instructions so that children can complete each step together.</p> <ol style="list-style-type: none"> 1. <i>Write your name on the cover.</i> 2. <i>Open the notebook, and turn two pages. Leave those pages blank. [This will leave room to create a table of contents later.]</i> 3. <i>On the next page, glue the question strip on the top of the page.</i> 4. <i>Every scientist has different questions and interests. Now you’re going to have a chance to look through some words and images that interest you. Choose a few images and/or words to cut out and add to the cover of your science journal. This is your chance to really make it your own and show others what interests you!</i> <p>Distribute piles of the science journal resource PDF and/or newspapers/</p>

	<p>magazines/photos.</p> <p>Preview the science journal work for the year. <i>Each time you use your science journal, you will have a question to think about [indicate question at the top of the page], space to record the date, weather, temperature, space to draw, and space to write a question you are thinking about. We'll begin this next week.</i></p> <p>Collect the science journals, pencils, and glue sticks.</p>
<p>Closing 1 minute</p>	<p><i>Next week, we will begin a new station, called Science Literacy. When you visit that station, you'll draw yourself as a scientist on this page. I wonder how you will show yourself as a scientist who asks a lot of questions!</i></p>
<p>Standards</p>	<p>Practice 1: Asking questions and defining problems S.L.1.1c: Ask questions to clear up any confusion about the topics and texts under discussion.</p>
<p>Ongoing assessment</p>	<p>Continue to track what kinds of questions children ask and what topics they are interested in.</p>

Notes

plants and
flowers



pets



farm
animals



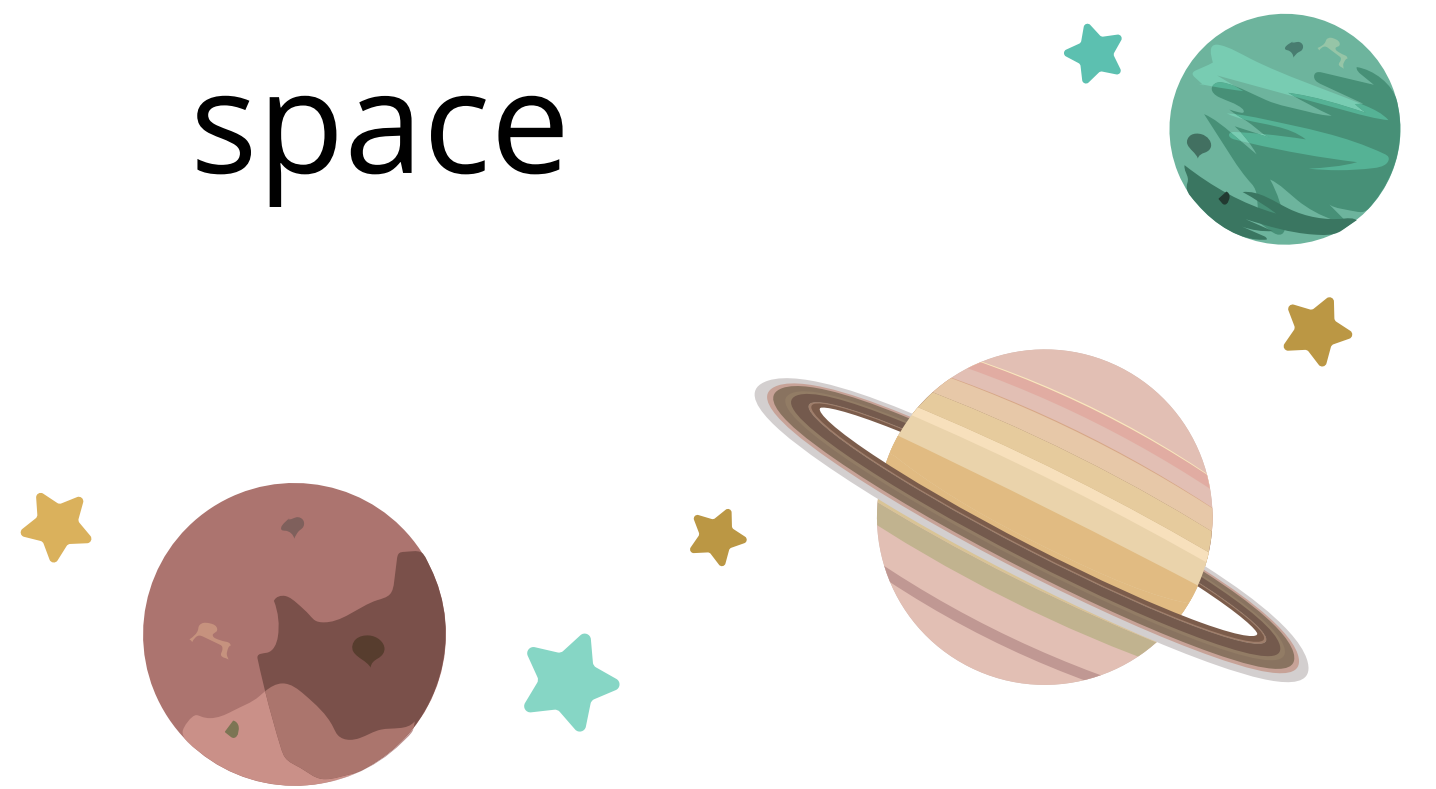
weather



ocean
animals



space



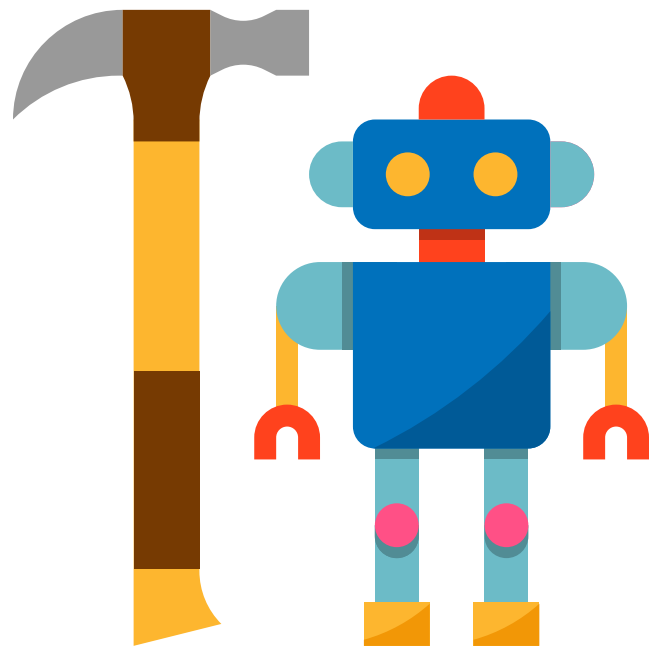
wild land
animals



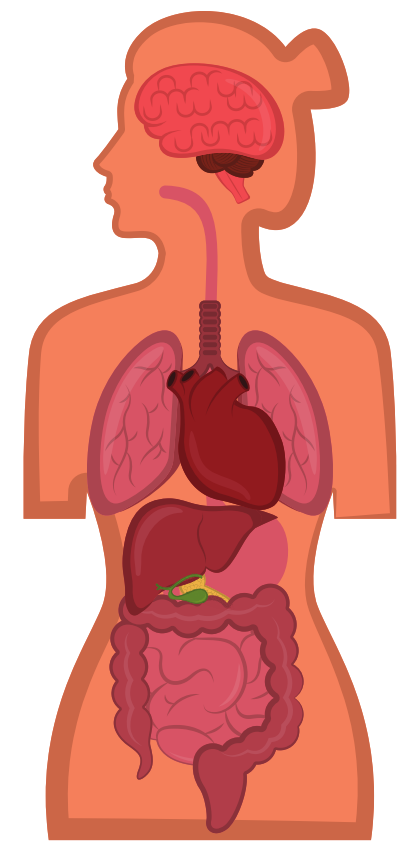
Earth



inventions



human
body



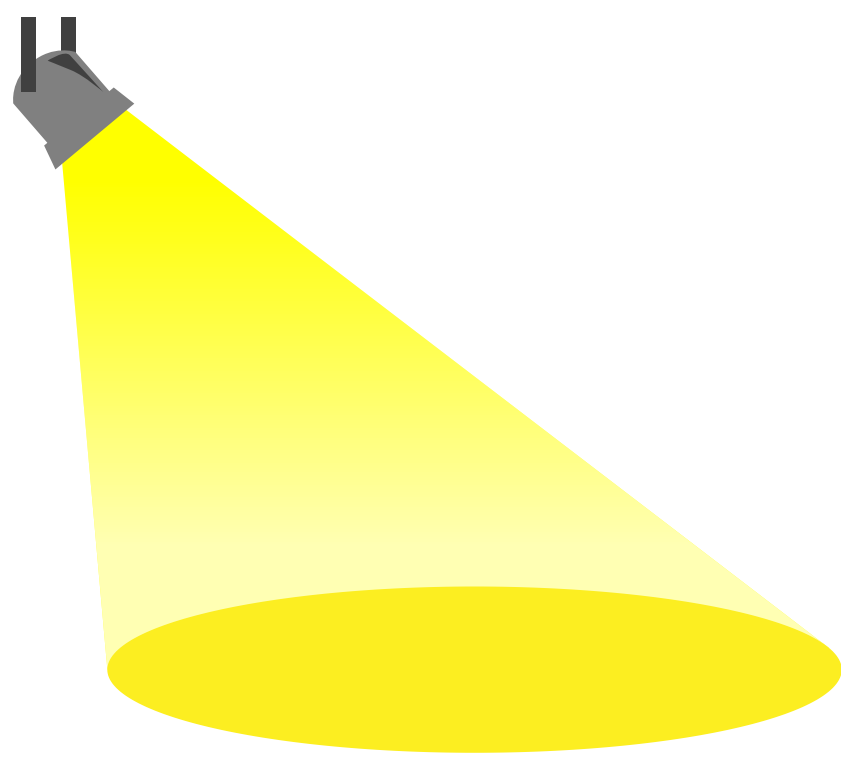
scientists
and
engineers



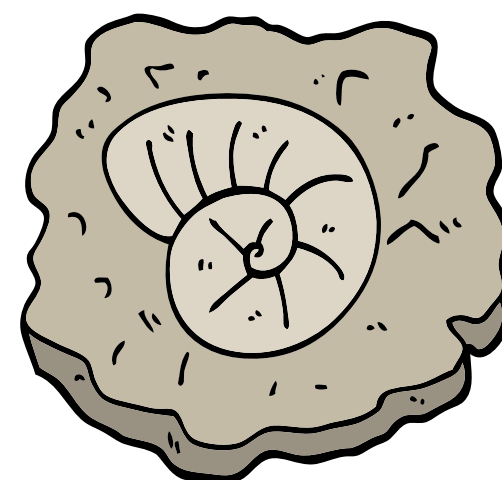
land and
water



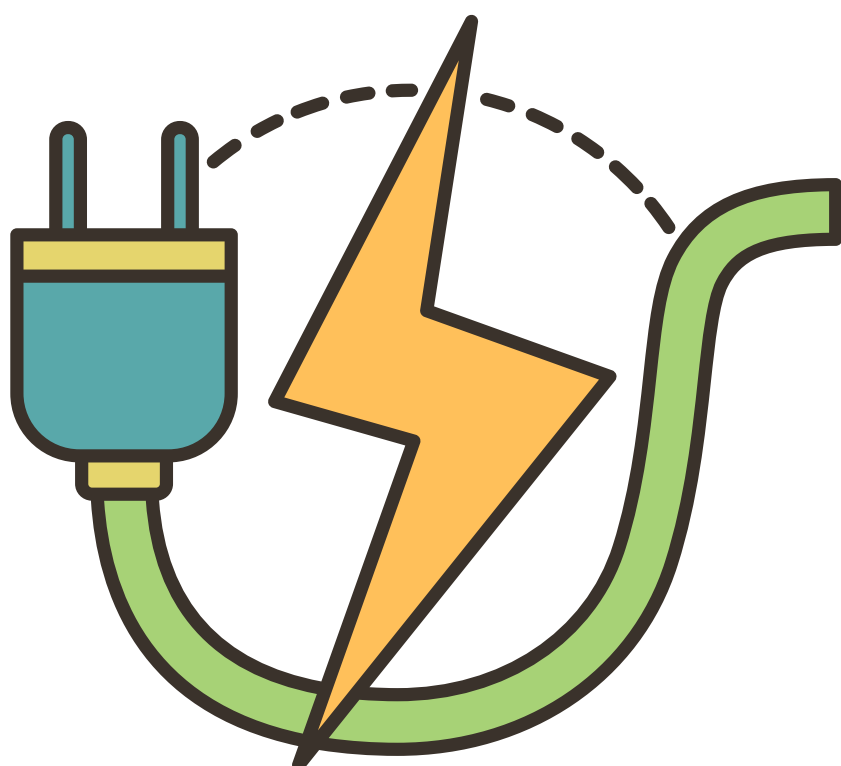
light



fossils



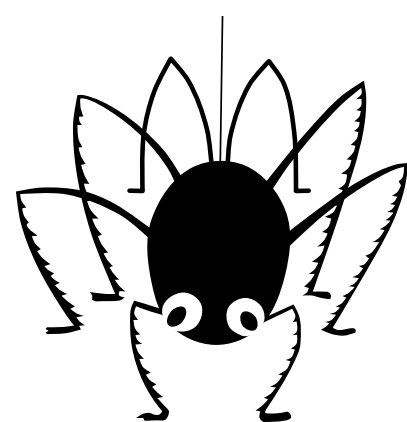
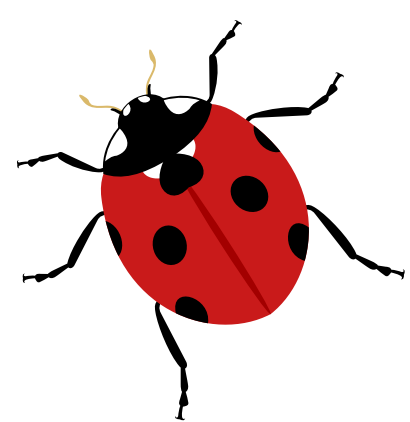
energy



tools and
machines



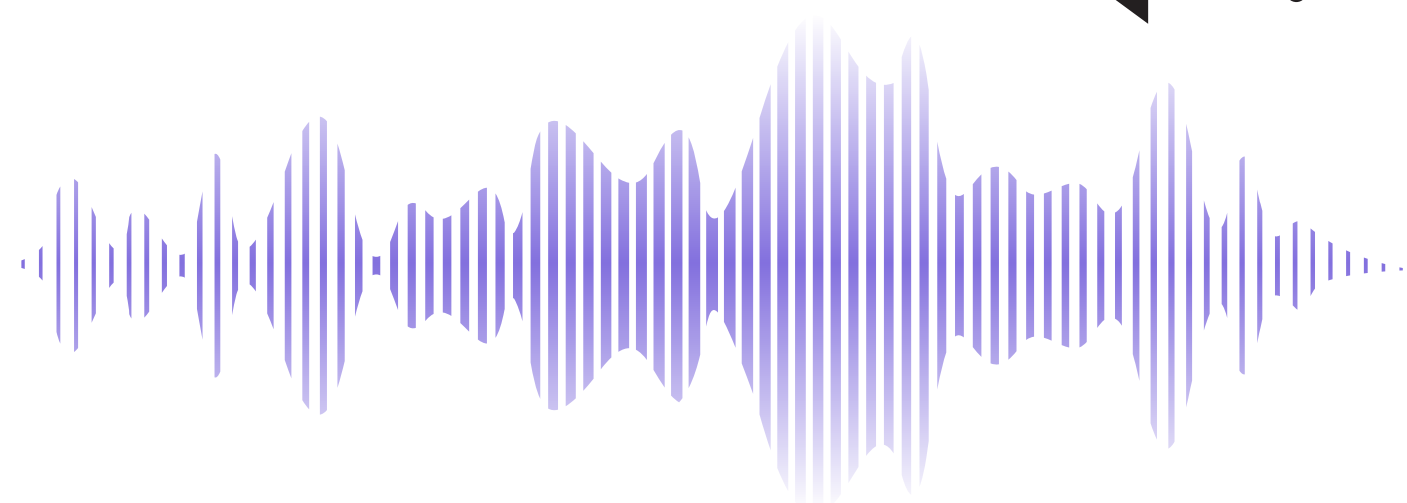
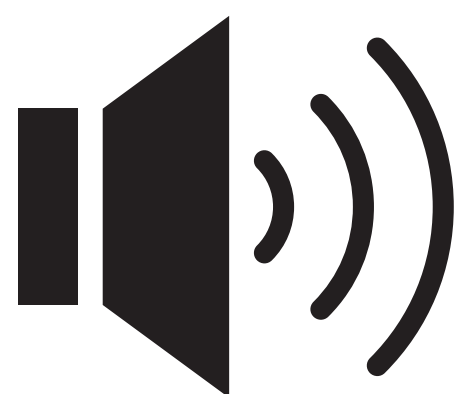
bugs and
insects



math



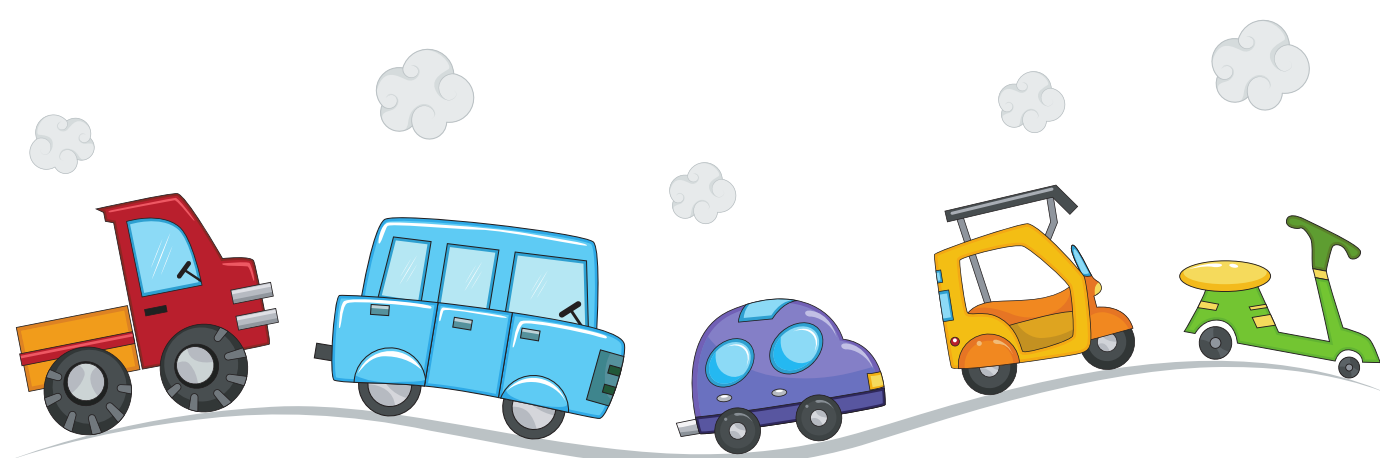
sound



water



transportation



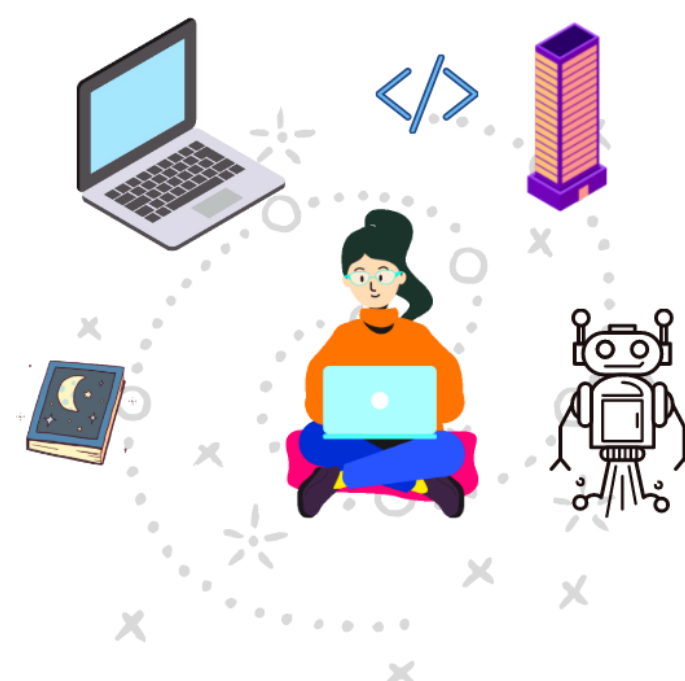
recycling



magnets



technology



Astronomer

How far is the sun from
Earth?

Will plants grow without soil?

Botanist

What will happen if two
chemicals are mixed together?

How can we protect coral
reefs?

Meteorologist

What will the weather be
tomorrow?

Are there tiny bacteria in the
water making people sick?

Microbiologist

What kind of rocks are
formed by a volcano?

Week 1 prompt

What does a scientist do?	Date _____ Weather _____ Temperature _____
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Adapted with permission for Maine Public Schools

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Maine Department of Education