

## GRADE 2

### Scientific Inquiry

**Standard 2-1: The student will demonstrate an understanding of scientific inquiry, including the processes, skills, and mathematical thinking necessary to conduct a simple scientific investigation.**

**Indicators**

**PLT Activities**

<p>2-1.1 Carry out simple scientific investigations to answer questions about familiar objects and events.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 1b The Shape of Things</li> <li>● 3 Peppermint Beetle</li> <li><input type="checkbox"/> 4b Sounds Around</li> <li>● 13b We All Need Trees</li> <li><input type="checkbox"/> 15 A Few Of My Favorite Things</li> <li>● 21a Adopt A Tree</li> <li>● 24 Nature’s Recyclers</li> <li><input type="checkbox"/> 31 Plant a Tree</li> <li><input type="checkbox"/> 36 Pollution Search</li> <li><input type="checkbox"/> 39a Energy Sleuths</li> <li>● 41v How Plants Grow</li> <li>● 43 Have Seeds, Will Travel</li> </ul>	<ul style="list-style-type: none"> <li>● 46 Schoolyard Safari</li> <li><input type="checkbox"/> 47v Are Vacant Lots Vacant?</li> <li>● 48v Field, Forest, and Stream</li> <li>● 51 Make Your Own Paper</li> <li>● 61 The Closer You Look</li> <li><input type="checkbox"/> 70a Soil Stories</li> <li><input type="checkbox"/> 76v Tree Cookies</li> <li><input type="checkbox"/> 77a Trees in Trouble</li> <li>● 78a Signs of Fall</li> </ul>
<p>2-1.2 Use tools (including thermometers, rain gauges, balances, and measuring cups) safely, accurately, and appropriately when gathering specific data.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 1b The Shape of Things</li> <li>● 24 Nature’s Recyclers</li> <li><input type="checkbox"/> 41v How Plants Grow</li> <li>● 47v Are Vacant Lots Vacant?</li> </ul>	<ul style="list-style-type: none"> <li>● 48v Field, Forest, and Stream</li> <li>● 51 Make Your Own Paper</li> <li>● 70a Soil Stories</li> <li><input type="checkbox"/> 76v Tree Cookies</li> </ul>
<p>2-1.3 Represent and communicate simple data and explanations through drawings, tables, pictographs, bar graphs, and oral and written language.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 1b The Shape of Things</li> <li>● 4b Sounds Around</li> <li><input type="checkbox"/> 6 Picture This!</li> <li><input type="checkbox"/> 13b We All Need Trees</li> <li><input type="checkbox"/> 15 A Few Of My Favorite Things</li> <li><input type="checkbox"/> 16a Pass The Plants, Please</li> </ul>	<ul style="list-style-type: none"> <li>● 41v How Plants Grow</li> <li>● 43 Have Seeds, Will Travel</li> <li>● 46 Schoolyard Safari</li> <li>● 48v Field, Forest, and Stream</li> <li><input type="checkbox"/> 51 Make Your Own Paper</li> <li><input type="checkbox"/> 53v On the Move</li> <li>● 61 The Closer You Look</li> <li><input type="checkbox"/> 62 To Be a Tree</li> </ul>

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

	<input type="checkbox"/> 20 Environmental Exchange Box <ul style="list-style-type: none"> <li>● 24 Nature’s Recyclers</li> <li>● 25 Birds and Worms</li> </ul> <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 30 Three Cheers for Trees <input type="checkbox"/> 31 Plant a Tree <ul style="list-style-type: none"> <li>● 36 Pollution Search</li> </ul> <input type="checkbox"/> 39a Energy Sleuths	<input type="checkbox"/> 63v Tree Factory <ul style="list-style-type: none"> <li>● 70a Soil Stories</li> <li>● 76v Tree Cookies</li> </ul> <input type="checkbox"/> 77a Trees in Trouble <ul style="list-style-type: none"> <li>● 78a Signs of Fall</li> </ul>
2-1.4 Infer explanations regarding scientific observations and experiences.	<input type="checkbox"/> 1b The Shape of Things <ul style="list-style-type: none"> <li>● 4b Sounds Around</li> </ul> <input type="checkbox"/> 6 Picture This! <ul style="list-style-type: none"> <li>● 8 The Forest Of S.T. Shrew</li> <li>● 13b We All Need Trees</li> </ul> <input type="checkbox"/> 16a Pass The Plants, Please <ul style="list-style-type: none"> <li>● 18 Tale of the Sun</li> </ul> <input type="checkbox"/> 20 Environmental Exchange Box <ul style="list-style-type: none"> <li>● 21a Adopt A Tree</li> <li>● 22a Trees as Habitats</li> <li>● 24 Nature’s Recyclers</li> <li>● 25 Birds and Worms</li> </ul> <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 30 Three Cheers for Trees	<input type="checkbox"/> 32a A Forest of Many Uses <ul style="list-style-type: none"> <li>● 36 Pollution Search</li> </ul> <input type="checkbox"/> 39a Energy Sleuths <ul style="list-style-type: none"> <li>● 41v How Plants Grow</li> <li>● 46 Schoolyard Safari</li> <li>● 47v Are Vacant Lots Vacant?</li> <li>● 48v Field, Forest, and Stream</li> <li>● 51 Make Your Own Paper</li> </ul> <input type="checkbox"/> 53v On the Move <input type="checkbox"/> 54 I’d Like to Visit a Place Where.... <ul style="list-style-type: none"> <li>● 61 The Closer You Look</li> </ul> <input type="checkbox"/> 70a Soil Stories <ul style="list-style-type: none"> <li>● 76v Tree Cookies</li> </ul> <input type="checkbox"/> 77a Trees in Trouble <ul style="list-style-type: none"> <li>● 78a Signs of Fall</li> </ul>
2-1.5 Use appropriate safety procedures when conducting investigations.	<input type="checkbox"/> 2 Get in Touch with Trees <input type="checkbox"/> 3 Peppermint Beetle <ul style="list-style-type: none"> <li>● 24 Nature’s Recyclers</li> </ul> <input type="checkbox"/> 41v How Plants Grow	<ul style="list-style-type: none"> <li>● 46 Schoolyard Safari</li> </ul> <input type="checkbox"/> 48v Field, Forest, and Stream <input type="checkbox"/> 51 Make Your Own Paper <ul style="list-style-type: none"> <li>● 70a Soil Stories</li> </ul>

## Animals

**Standard 2-2: The student will demonstrate an understanding of the needs and characteristics of animals as they interact in their own distinct environments. (Life Science)**

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

**Indicators**

**PLT Activities**

<p>2-2.1 Recall the basic needs of animals (including air, water, food, and shelter) for energy, growth, and protection.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 3 Peppermint Beetle</li> <li>● 6 Picture This!</li> <li>● 8 The Forest Of S.T. Shrew</li> <li><input type="checkbox"/> 18 Tale of the Sun</li> <li>● 20 Environmental Exchange Box</li> <li>● 22a Trees as Habitats</li> <li>● 24 Nature’s Recyclers</li> <li><input type="checkbox"/> 25 Birds and Worms</li> <li><input type="checkbox"/> 32a A Forest of Many Uses</li> <li><input type="checkbox"/> 39a Energy Sleuths</li> </ul>	<ul style="list-style-type: none"> <li>● 46 Schoolyard Safari</li> <li><input type="checkbox"/> 47v Are Vacant Lots Vacant?</li> <li>● 48v Field, Forest, and Stream</li> <li><input type="checkbox"/> 61 The Closer You Look</li> <li>● 63v Tree Factory</li> <li><input type="checkbox"/> 64 Looking at Leaves</li> <li><input type="checkbox"/> 65 Bursting Buds</li> <li><input type="checkbox"/> 67v How Big is Your Tree?</li> <li><input type="checkbox"/> 68 Name That Tree</li> <li><input type="checkbox"/> 87 Earth Manners</li> </ul>
<p>2-2.2 Classify animals (including mammals, birds, amphibians, reptiles, fish, and insects) according to their physical characteristics.</p>	<ul style="list-style-type: none"> <li>● 3 Peppermint Beetle</li> <li>● 6 Picture This!</li> <li>● 8 The Forest Of S.T. Shrew</li> <li><input type="checkbox"/> 18 Tale of the Sun</li> <li>● 20 Environmental Exchange Box</li> <li><input type="checkbox"/> 22a Trees As Habitats</li> <li>● 24 Nature’s Recyclers</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 25 Birds and Worms</li> <li><input type="checkbox"/> 32a A Forest of Many Uses</li> <li><input type="checkbox"/> 46 Schoolyard Safari</li> <li><input type="checkbox"/> 47v Are Vacant Lots Vacant?</li> <li><input type="checkbox"/> 49v Tropical Treehouse</li> <li>● 67v How Big is Your Tree?</li> </ul>
<p>2-2.3 Explain how distinct environments throughout the world support the life of different types of animals.</p>	<ul style="list-style-type: none"> <li>● 6 Picture This!</li> <li><input type="checkbox"/> 8 The Forest Of S.T. Shrew</li> <li><input type="checkbox"/> 18 Tale of the Sun</li> <li>● 20 Environmental Exchange Box</li> <li>● 24 Nature’s Recyclers</li> <li><input type="checkbox"/> 25 Birds and Worms</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 32a A Forest of Many Uses</li> <li><input type="checkbox"/> 48v Field, Forest, and Stream</li> <li><input type="checkbox"/> 49v Tropical Treehouse</li> <li><input type="checkbox"/> 64 Looking at Leaves</li> <li><input type="checkbox"/> 67v How Big is Your Tree?</li> <li><input type="checkbox"/> 68 Name That Tree</li> </ul>
<p>2-2.4 Summarize the interdependence between animals and plants as sources of food and shelter.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> 3 Peppermint Beetle</li> <li>● 6 Picture This!</li> <li>● 8 The Forest Of S.T. Shrew</li> <li><input type="checkbox"/> 13b We All Need Trees</li> <li><input type="checkbox"/> 15 A Few Of My Favorite Things</li> <li><input type="checkbox"/> 18 Tale of the Sun</li> <li><input type="checkbox"/> 20 Environmental Exchange Box</li> <li>● 22a Trees as Habitats</li> <li>● 24 Nature’s Recyclers</li> <li>● 25 Birds and Worms</li> </ul>	<ul style="list-style-type: none"> <li>● 32a A Forest of Many Uses</li> <li>● 46 Schoolyard Safari</li> <li>● 47v Are Vacant Lots Vacant?</li> <li>● 48 Field, Forest, and Stream</li> <li><input type="checkbox"/> 49v Tropical Treehouse</li> <li>● 61 The Closer You Look</li> <li><input type="checkbox"/> 64 Looking at Leaves</li> <li><input type="checkbox"/> 65 Bursting Buds</li> <li><input type="checkbox"/> 67v How Big is Your Tree?</li> </ul>

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

	<input type="checkbox"/> 30 Three Cheers for Trees <input type="checkbox"/> 31 Plant a Tree	<input type="checkbox"/> 68 Name That Tree <input checked="" type="bullet"/> 87 Earth Manners
2-2.5 Illustrate the various life cycles of animals (including birth and the stages of development).	<input type="checkbox"/> 18 Tale of the Sun	

## Weather

**Standard 2-3:** The student will demonstrate an understanding of daily and seasonal weather conditions. (Earth Science)

### Indicators

### PLT Activities

2-3.1 Explain the effects of moving air as it interacts with objects.	
2-3.2 Recall weather terminology (including temperature, wind direction, wind speed, and precipitation as rain, snow, sleet, and hail).	<input type="checkbox"/> 18 Tale of the Sun <input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 49 Tropical Treehouse
2-3.3 Illustrate the weather conditions of different seasons.	<input type="checkbox"/> 20 Environmental Exchange Box
2-3.4 Carry out procedures to measure and record daily weather conditions (including temperature, precipitation amounts, wind speed as measured on the Beaufort scale, and wind direction as measured with a windsock or wind vane).	<input type="checkbox"/> 48v Field, Forest, and Stream
2-3.5 Use pictorial weather symbols to record observable sky conditions.	<input type="checkbox"/> 20 Environmental Exchange Box
2-3.6 Identify safety precautions that one should take during severe weather conditions.	

## Properties and Changes in Matter

**Standard 2-4:** The student will demonstrate an understanding of the properties of matter and the changes that matter undergoes. (Physical Science)

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

<b>Indicators</b>		<b>PLT Activities</b>
2-4.1	Recall the properties of solids and liquids.	<input type="checkbox"/> 13b We All Need Trees <input type="checkbox"/> 15 A Few Of My Favorite Things <input type="checkbox"/> 41 How Plants Grow
2-4.2	Exemplify matter that changes from a solid to a liquid and from a liquid to a solid.	<input type="checkbox"/> 41 How Plants Grow
2-4.3	Explain how matter can be changed in ways such as heating or cooling, cutting or tearing, bending or stretching.	
2-4.4	Recognize that different materials can be mixed together and then separated again.	<input type="checkbox"/> 13b We All Need Trees <input type="checkbox"/> 15 A Few Of My Favorite Things <input type="checkbox"/> 41 How Plants Grow

## Magnetism

**Standard 2-5:** The student will demonstrate an understanding of force and motion by applying the properties of magnetism. (Physical Science)

<b>Indicators</b>		<b>PLT Activities</b>
2-5.1	Use magnets to make an object move without being touched.	
2-5.2	Explain how the poles of magnets affect each other (that is, they attract and repel one another).	
2-5.3	Compare the effect of magnets on various materials.	
2-5.4	Identify everyday uses of magnets.	

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced