

GRADE 1

Scientific Inquiry

Standard 1-1: 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>1-1.1 Compare, classify, and sequence objects by number, shape, texture, size, color, and motion, using standard English units of measurement where appropriate.</p>	<ul style="list-style-type: none"> ● 1b The Shape of Things ● 2 Get In Touch with Trees ● 3 Peppermint Beetle ● 4b Sounds Around ● 6 Picture This! ● 8 The Forest Of S.T. Shrew <input type="checkbox"/> 13a We All Need Trees <input type="checkbox"/> 16a Pass The Plants, Please ● 20 Environmental Exchange Box ● 21a Adopt A Tree ● 22a Trees As Habitats ● 25 Birds and Worms ● 31 Plant a Tree ● 32a A Forest of Many Uses ● 36b Pollution Search <input type="checkbox"/> 39a Energy Sleuths <input type="checkbox"/> 41v How Plants Grow ● 43 Have Seeds, Will Travel 	<ul style="list-style-type: none"> ● 46 Schoolyard Safari <input type="checkbox"/> 47v Are Vacant Lots Vacant? ● 48v Field, Forest, and Stream <input type="checkbox"/> 49v Tropical Treehouse <input type="checkbox"/> 51 Make Your Own Paper ● 53v On the Move <input type="checkbox"/> 54a I'd Like to Visit a Place Where.... <input type="checkbox"/> 61 The Closer You Look <input type="checkbox"/> 62 To Be a Tree <input type="checkbox"/> 63v Tree Factory ● 64 Looking at Leaves <input type="checkbox"/> 65 Bursting Buds ● 67v How Big is Your Tree? ● 70a Soil Stories ● 76v Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78a Signs of Fall ● 79v Tree Lifecycle
<p>1-1.2 Use tools (including rulers) safely, accurately, and appropriately when gathering specific data.</p>	<ul style="list-style-type: none"> ● 1b The Shape of Things <input type="checkbox"/> 4b Sounds Around <input type="checkbox"/> 6 Picture This! <input type="checkbox"/> 8 The Forest Of S.T. Shrew ● 20 Environmental Exchange Box ● 31 Plant a Tree <input type="checkbox"/> 36b Pollution Search 	<ul style="list-style-type: none"> ● 43 Have Seeds, Will Travel ● 48v Field, Forest, and Stream <input type="checkbox"/> 51 Make Your Own Paper <input type="checkbox"/> 62 To Be a Tree ● 64 Looking at Leaves ● 67v How Big is Your Tree?

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

	<input type="checkbox"/> 41v How Plants Grow <input type="checkbox"/> 2 Get In Touch with Trees <input type="checkbox"/> 22a Trees As Habitats <input type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 41v How Plants Grow	<ul style="list-style-type: none"> ● 70a Soil Stories ● 43 Have Seeds, Will Travel ● 46 Schoolyard Safari ● 48v Field, Forest, and Stream ● 51 Make Your Own Paper ● 64 Looking at Leaves ● 67v How Big is Your Tree? ● 70a Soil Stories
1-1.3 Carry out simple scientific investigations when given clear directions.	<ul style="list-style-type: none"> ● 1b The Shape of Things ● 3 Peppermint Beetle ● 4b Sounds Around ● 24 Nature's Recyclers 	<input type="checkbox"/> 46 Schoolyard Safari <input type="checkbox"/> 47v Are Vacant Lots Vacant? <ul style="list-style-type: none"> ● 48v Field, Forest, and Stream ● 52 A Look at Aluminum ● 64 Looking at Leaves ● 67v How Big is Your Tree? ● 70a Soil Stories ● 78a Signs of Fall ● 81c Living with Fire ● 87 Earth Manners
1-1.4 Use appropriate safety procedures when conducting investigations.	<ul style="list-style-type: none"> ● 1b The Shape of Things ● 20 Environmental Exchange Box ● 31 Plant a Tree ● 36b Pollution Search ● 43 Have Seeds, Will Travel 	<input type="checkbox"/> 2 Get In Touch with Trees <input type="checkbox"/> 22a Trees As Habitats <input type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 41v How Plants Grow <input type="checkbox"/> 47v Are Vacant Lots Vacant? <input type="checkbox"/> 52 A Look at Aluminum <input type="checkbox"/> 67v How Big is Your Tree? <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78a Signs of Fall <input type="checkbox"/> 79v Tree Lifecycle <input type="checkbox"/> 81c Living with Fire

Plants

Standard 1-2: The student will demonstrate an understanding of the special characteristics and needs of plants that allow them to survive in their own distinct environments. (Life Science)

Indicator

PLT Activities

1-2.1 Recall the basic needs of plants (including air, water, nutrients, space, and light) for energy and growth.	<input type="checkbox"/> 18 Tale of the Sun <input type="checkbox"/> Environmental Exchange Box <ul style="list-style-type: none"> ● 21a Adopt A Tree ● 27 Every Tree for Itself ● 31 Plant a Tree ● 41v How Plants Grow ● 43 Have Seeds, Will Travel ● 47v Are Vacant Lots 	<input type="checkbox"/> 62 To Be a Tree <ul style="list-style-type: none"> ● 63v Tree Factory ● 64 Looking at Leaves ● 65 Bursting Buds ● 67v How Big is Your Tree? ● 70a Soil Stories ● 77a Trees in Trouble ● 78a Signs of Fall ● 79v Tree Lifecycle ● 81c Living with Fire
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		<p>Vacant?</p> <ul style="list-style-type: none"> ● 48v Field, Forest, and Stream ☐ 61 The Closer You Look
1-2.2	Illustrate the major structures of plants (including stems, roots, leaves, flowers, fruits, and seeds).	<ul style="list-style-type: none"> ● 1b The Shape of Things ● 2 Get In Touch with Trees ☐ 3 Peppermint Beetle ☐ 6 Picture This! ☐ 13a We All Need Trees ● 16a Pass The Plants, Please ☐ 18 Tale of the Sun ☐ Environmental Exchange Box ● 21a Adopt A Tree ● 22a Trees As Habitats ☐ 27 Every Tree for Itself ☐ 30 Three Cheers for Trees ● 31 Plant a Tree ☐ 41v How Plants Grow ● 43 Have Seeds, Will Travel
1-2.3	Classify plants according to their characteristics (including what specific type of environment they live in, whether they have edible parts, and what particular kinds of physical traits they have).	<ul style="list-style-type: none"> ☐ 6 Picture This! ● 8 The Forest Of S.T. Shrew ● 16a Pass The Plants, Please ☐ 18 Tale of the Sun ● Environmental Exchange Box ☐ 21a Adopt A Tree ☐ 22a Trees As Habitats ☐ 27 Every Tree for Itself ● 30 Three Cheers for Trees ● 31 Plant a Tree ☐ 32a A Forest of Many Uses ☐ 41v How Plants Grow ● 43 Have Seeds, Will Travel ● 47v Are Vacant Lots Vacant? ● 48v Field, Forest, and Stream ☐ 61 The Closer You Look ☐ 62 To Be a Tree ☐ 63v Tree Factory ☐ 64 Looking at Leaves ● 65 Bursting Buds ☐ 77a Trees in Trouble ☐ 78a Signs of Fall ☐ 79v Tree Lifecycle ☐ 81c Living with Fire

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Indicators		PLT Activities	
1-2.4	Summarize the life cycle of plants (including germination, growth, and the production of flowers and seeds).	<input type="checkbox"/> 6 Picture This! <input type="checkbox"/> 16a Pass The Plants, Please <input type="checkbox"/> 18 Tale of the Sun <input type="checkbox"/> 21a Adopt A Tree <input type="checkbox"/> 22a Trees As Habitats <input type="checkbox"/> 27 Every Tree for Itself	<ul style="list-style-type: none"> ● 31 Plant a Tree ● 41v How Plants Grow ● 43 Have Seeds, Will Travel <input type="checkbox"/> 63v Tree Factory ● 76v Tree Cookies ● 79v Tree Lifecycle <input type="checkbox"/> 81c Living with Fire
1-2.5	Explain how distinct environments throughout the world support the life of different types of plants.	<input type="checkbox"/> 18 Tale of the Sun <ul style="list-style-type: none"> ● 20 Environmental Exchange Box <input type="checkbox"/> 30 Three Cheers for Trees <input type="checkbox"/> 31 Plant a Tree <input type="checkbox"/> 32a A Forest of Many Uses	<input type="checkbox"/> 41v How Plants Grow <input type="checkbox"/> 43 Have Seeds, Will Travel <input type="checkbox"/> 47v Are Vacant Lots Vacant? <ul style="list-style-type: none"> ● 48v Field, Forest, and Stream <input type="checkbox"/> 81c Living with Fire
1-2.6	Identify characteristics of plants (including types of stems, roots, leaves, flowers, and seeds) that help them survive in their own distinct environments.	<input type="checkbox"/> 6 Picture This! <input type="checkbox"/> 18 Tale of the Sun <ul style="list-style-type: none"> ● Environmental Exchange Box <input type="checkbox"/> 21a Adopt A Tree <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 31 Plant a Tree <input type="checkbox"/> 41v How Plants Grow <ul style="list-style-type: none"> ● 43 Have Seeds, Will Travel ● 47v Are Vacant Lots Vacant? <input type="checkbox"/> 48v Field, Forest, and Stream	<input type="checkbox"/> 61 The Closer you Look <ul style="list-style-type: none"> ● 62 To Be A Tree ● 63v Tree Factory <input type="checkbox"/> 64 Looking at Leaves <input type="checkbox"/> 65 Bursting Buds <input type="checkbox"/> 77a Trees in Trouble <ul style="list-style-type: none"> ● 78a Signs of Fall <input type="checkbox"/> 81c Living with Fire

Sun and Moon

Standard 1-3: The student will demonstrate an understanding of the features of the sky and the patterns of the Sun and the Moon. (Earth Science)

Indicators		PLT Activities	
1-3.1	Compare the features of the day and night sky.		
1-3.2	Recall that the Sun is a source of heat and light for Earth.	<input type="checkbox"/> 27 Every Tree for Itself <ul style="list-style-type: none"> ● 39a Energy Sleuths <input type="checkbox"/> 41v How Plants Grow	<input type="checkbox"/> 48v Field, Forest, and Stream <input type="checkbox"/> 53 On the Move

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Indicators	PLT Activities
1-3.3 Recognize that the Sun and the Moon appear to rise and set.	
1-3.4 Illustrate changes in the Moon's appearance (including patterns over time).	

Earth Materials

Standard 1-4: The student will demonstrate an understanding of the properties of Earth materials. (Earth Science)

Indicators	PLT Activities
1-4.1 Recognize the composition of Earth (including rocks, sand, soil, and water).	<input type="checkbox"/> 8 The Forest Of S.T. Shrew <input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 21a Adopt A Tree <input type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 31 Plant a Tree <input type="checkbox"/> 41v How Plants Grow <input type="checkbox"/> 43 Have Seeds, Will Travel <input type="checkbox"/> 49v Tropical Treehouse <input type="checkbox"/> 48v Field, Forest, and Stream <input checked="" type="checkbox"/> 70a Soil Stories <input type="checkbox"/> 81c Living with Fire
1-4.2 Classify rocks and sand by their physical appearance .	<input type="checkbox"/> 1b The Shape of Things <input type="checkbox"/> 20 Environmental Exchange Box <input checked="" type="checkbox"/> 47v Are Vacant Lots Vacant? <input checked="" type="checkbox"/> 70a Soil Stories
1-4.3 Compare soil samples by sorting them according to properties (including color, texture, and the capacity to nourish growing plants).	<input type="checkbox"/> 20 Environmental Exchange Box <input checked="" type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 31 Plant a Tree <input type="checkbox"/> 41v How Plants Grow <input type="checkbox"/> 48v Field, Forest, and Stream <input checked="" type="checkbox"/> 70a Soil Stories <input type="checkbox"/> 81c Living with Fire
1-4.4 Recognize the observable properties of water (including the fact that it takes the shape of its container, flows downhill, and feels wet).	<input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 48v Field, Forest, and Stream
1-4.5 Illustrate the locations of water on Earth by using drawings, maps, or models.	<input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 49v Tropical Treehouse

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Indicators**PLT Activities**

1-4.6 Exemplify Earth materials that are used for building structures or for growing plants.	<table border="0"> <tr> <td><input type="checkbox"/> 8 The Forest Of S.T. Shrew</td> <td><input type="checkbox"/> 43 Have Seeds, Will Travel</td> </tr> <tr> <td><input type="checkbox"/> 20 Environmental Exchange Box</td> <td><input type="checkbox"/> 47v Are Vacant Lots Vacant?</td> </tr> <tr> <td>• 21a Adopt A Tree</td> <td>• 48v Field, Forest, and Stream</td> </tr> <tr> <td><input type="checkbox"/> 22a Trees As Habitats</td> <td>• 51 Make Your Own Paper</td> </tr> <tr> <td><input type="checkbox"/> 24 Nature's Recyclers</td> <td><input type="checkbox"/> 62 To Be a Tree</td> </tr> <tr> <td>• 27 Every Tree for Itself</td> <td>• 70a Soil Stories</td> </tr> <tr> <td><input type="checkbox"/> 30 Three Cheers for Trees</td> <td><input type="checkbox"/> 78a Signs of Fall</td> </tr> <tr> <td>• 31 Plant a Tree</td> <td><input type="checkbox"/> 79v Tree Lifecycle</td> </tr> <tr> <td>• 41v How Plants Grow</td> <td><input type="checkbox"/> 81c Living with Fire</td> </tr> </table>	<input type="checkbox"/> 8 The Forest Of S.T. Shrew	<input type="checkbox"/> 43 Have Seeds, Will Travel	<input type="checkbox"/> 20 Environmental Exchange Box	<input type="checkbox"/> 47v Are Vacant Lots Vacant?	• 21a Adopt A Tree	• 48v Field, Forest, and Stream	<input type="checkbox"/> 22a Trees As Habitats	• 51 Make Your Own Paper	<input type="checkbox"/> 24 Nature's Recyclers	<input type="checkbox"/> 62 To Be a Tree	• 27 Every Tree for Itself	• 70a Soil Stories	<input type="checkbox"/> 30 Three Cheers for Trees	<input type="checkbox"/> 78a Signs of Fall	• 31 Plant a Tree	<input type="checkbox"/> 79v Tree Lifecycle	• 41v How Plants Grow	<input type="checkbox"/> 81c Living with Fire
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Exploring Motion

Standard 1-5: The student will demonstrate an understanding of the positions and motions of objects. (Physical Science)

Indicators**PLT Activities**

1-5.1 Identify the location of an object relative to another object.	4b Sounds Around						
1-5.2 Explain the importance of pushing and pulling to the motion of an object.	<input type="checkbox"/> 39a Energy Sleuths <input type="checkbox"/> 53v On the Move						
1-5.3 Illustrate the fact that sound is produced by vibrating objects.	• 4b Sounds Around						
1-5.4 Illustrate ways in which objects can move in terms of direction and speed (including straight forward, back and forth, fast or slow, zigzag, and circular).	<table border="0"> <tr> <td><input type="checkbox"/> 24 Nature's Recyclers</td> <td><input type="checkbox"/> 46 Schoolyard Safari</td> </tr> <tr> <td><input type="checkbox"/> 39a Energy Sleuths</td> <td><input type="checkbox"/> 53v On the Move</td> </tr> <tr> <td><input type="checkbox"/> 43 Have Seeds, Will Travel</td> <td></td> </tr> </table>	<input type="checkbox"/> 24 Nature's Recyclers	<input type="checkbox"/> 46 Schoolyard Safari	<input type="checkbox"/> 39a Energy Sleuths	<input type="checkbox"/> 53v On the Move	<input type="checkbox"/> 43 Have Seeds, Will Travel	
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