

GRADE 3

Scientific Inquiry

Standard 3-1: 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>3-1.1 Classify objects by two of their properties (attributes).</p>	<ul style="list-style-type: none"> ● 1b The Shape of Things ● 2 Get in Touch with Trees ● 3 Peppermint Beetle ● 4bd Sounds Around <input type="checkbox"/> 5 Poet-Tree <input type="checkbox"/> 6b Picture This! ● 13b We All Need Trees ● 15a A Few Of My Favorite Things ● 16 Pass The Plants, Please <input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 21bv Adopt A Tree <input type="checkbox"/> 24 Nature’s Recyclers ● 25 Birds and Worms ● 36a Pollution Search <input type="checkbox"/> 39a Energy Sleuths ● 43 Have Seeds, Will Travel <input type="checkbox"/> 46 Schoolyard Safari ● 48v Field, Forest, and Stream ● 61 The Closer You Look ● 64 Looking at Leaves ● 68 Name That Tree <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble
<p>3-1.2 Classify objects or events in sequential order.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 70a Soil Stories ● 76 Tree Cookies ● 79 Tree Lifecycle ● 80a Nothing Succeeds Like Succession ●
<p>3-1.3 Generate questions such as “what if?” or “how?” about objects, organisms, and events in the environment and use those questions to conduct a simple scientific investigation.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 24 Nature’s Recyclers ● 36a Pollution Search ● 42 Sunlight and Shades of Green <input type="checkbox"/> 43 Have Seeds, Will Travel <input type="checkbox"/> 46 Schoolyard Safari ● 48v Field, Forest, and Stream <input type="checkbox"/> 76 Tree Cookies ● 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall

- Standard Fully Addressed
- Standard Partially Addressed or Reinforced

Indicators	PLT Activities	
3-1.4 Predict the outcome of a simple investigation and compare the result with the prediction.	<input type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 25 Birds and Worms <input type="checkbox"/> 27 Every Tree for Itself <ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green ● 46 Schoolyard Safari ● 48v Field, Forest, and Stream <input type="checkbox"/> 49a Tropical Treehouse	<input type="checkbox"/> 65 Bursting Buds <input type="checkbox"/> 68 Name That Tree <input type="checkbox"/> 70a Soil Stories <ul style="list-style-type: none"> ● 76 Tree Cookies ● 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall
3-1.5 Use tools (including beakers, meter tapes and sticks, forceps/tweezers, tuning forks, graduated cylinders, and graduated syringes) safely, accurately, and appropriately when gathering specific data.	<input type="checkbox"/> 24 Nature's Recyclers <ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green ● 48v Field, Forest, and Stream ● 67v How Big Is Your Tree? 	<ul style="list-style-type: none"> ● 70a Soil Stories <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall
3-1.6 Infer meaning from data communicated in graphs, tables, and diagrams.	<input type="checkbox"/> 1b The Shape of Things <input type="checkbox"/> 4bd Sounds Around <input type="checkbox"/> 6b Picture This! <input type="checkbox"/> 13b We All Need Trees <ul style="list-style-type: none"> ● 15a A Few of My Favorite Things <input type="checkbox"/> 16 Pass The Plants, Please <input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 21b Adopt A Tree <ul style="list-style-type: none"> ● 22bv Trees as Habitats <input type="checkbox"/> 24 Nature's Recyclers <ul style="list-style-type: none"> ● 25 Birds and Worms <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 30 Three Cheers for Trees <ul style="list-style-type: none"> ● 36a Pollution Search <input type="checkbox"/> 39 Energy Sleuths	<ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green ● 43 Have Seeds, Will Travel ● 46 Schoolyard Safari ● 48v Field, Forest, and Stream ● 61 The Closer You Look ● 62 To Be a Tree <input type="checkbox"/> 64 Looking at Leaves <input type="checkbox"/> 65 Bursting Buds <ul style="list-style-type: none"> ● 70a Soil Stories ● 76 Tree Cookies ● 77a Trees in Trouble ● 78 Signs of Fall ● 79 Tree Lifecycle ● 80a Nothing Succeeds Like Succession

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Indicators		PLT Activities
3-1.7	Explain why similar investigations might produce different results.	<input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 42 Sunlight and Shades of Green <ul style="list-style-type: none"> ● 48v Field, Forest, and Stream <input type="checkbox"/> 76 Tree Cookies
3-1.8	Use appropriate safety procedures when conducting investigations.	<ul style="list-style-type: none"> ● 2 Get in Touch With Trees <input type="checkbox"/> 16 Pass The Plants, Please <ul style="list-style-type: none"> ● 21b Adopt A Tree ● 24 Nature's Recyclers <input type="checkbox"/> 48v Field, Forest, and Stream

Habitats and Adaptations

Standard 3-2: The student will demonstrate an understanding of the structures, characteristics, and adaptations of organisms that allow them to function and survive within their habitats. (Life Science)

Indicators		PLT Activities
3-2.1	Illustrate the life cycles of seed plants and various animals and summarize how they grow and adapt to conditions within their habitats.	<input type="checkbox"/> 5 Poet- Tree <input type="checkbox"/> 8 The Forest Of S.T. Shrew <input type="checkbox"/> 21b Adopt A Tree <input type="checkbox"/> 22bv Trees as Habitats <input type="checkbox"/> 31 Plant a Tree <ul style="list-style-type: none"> ● 43 Have Seeds, Will Travel <input type="checkbox"/> 46 Schoolyard Safari <input type="checkbox"/> 48v Field, Forest, and Stream <input type="checkbox"/> 49a Tropical Treehouse <input type="checkbox"/> 61 The Closer You Look <input type="checkbox"/> 62 To Be a Tree <input type="checkbox"/> 63 Tree Factory <input type="checkbox"/> 65 Bursting Buds <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall <ul style="list-style-type: none"> ● 79 Tree Lifecycle <input type="checkbox"/> 80a Nothing Succeeds Like Succession
3-2.2	Explain how physical and behavioral adaptations allow organisms to survive (including hibernation, defense, locomotion, movement, and camouflage for animals and seed dispersal, color, and response to light for plants).	<ul style="list-style-type: none"> ● 3 Peppermint Beetle <input type="checkbox"/> 4bd Sounds Around <input type="checkbox"/> 5 Poet-Tree <ul style="list-style-type: none"> ● 6b Picture This! ● 7 Habitat Pen Pals ● 8 The Forest Of S.T. Shrew <input type="checkbox"/> 21b Adopt A Tree <ul style="list-style-type: none"> ● 22bv Trees As Habitats ● 24 Nature's Recyclers ● 25 Birds and Worms <input type="checkbox"/> 31 Plant a Tree <ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green <ul style="list-style-type: none"> ● Have Seeds, Will Travel <input type="checkbox"/> 46 Schoolyard Safari <input type="checkbox"/> 48v Field, Forest, and Stream <ul style="list-style-type: none"> ● 49a Tropical Treehouse <input type="checkbox"/> 61 The Closer You Look <ul style="list-style-type: none"> ● 62 To Be a Tree ● 63 Tree Factory <input type="checkbox"/> 64 Looking at Leaves <ul style="list-style-type: none"> ● 65 Bursting Buds <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall <input type="checkbox"/> 79 Tree Lifecycle

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Indicators		PLT Activities	
3-2.3	Recall the characteristics of an organism's habitat that allow the organism to survive there.	<input type="checkbox"/> 3 Get in Touch with Trees <ul style="list-style-type: none"> ● 6b Picture This! ● 7 Habitat Pen Pals ● 8 The Forest Of S.T. Shrew <input type="checkbox"/> 20 Environmental Exchange Box <input type="checkbox"/> 21b Adopt A Tree <ul style="list-style-type: none"> ● 22bv Trees As Habitats ● 24 Nature's Recyclers ● 25 Birds and Worms <input type="checkbox"/> 28 Air Plants <input type="checkbox"/> 31 Plant a Tree <ul style="list-style-type: none"> ● 32a A Forest of Many Uses <input type="checkbox"/> 34 Who Works in this Forest?	<ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green <input type="checkbox"/> 43 Have Seeds, Will Travel <ul style="list-style-type: none"> ● 46 Schoolyard Safari ● 48v Field, Forest, and Stream ● 49a Tropical Treehouse <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"/> 63 Tree Factory <input type="checkbox"/> 65 Bursting Buds <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <input type="checkbox"/> 78 Signs of Fall <input type="checkbox"/> 79 Tree Lifecycle <input type="checkbox"/> 80a Nothing Succeeds Like Succession
3-2.4	Explain how changes in the habitats of plants and animals affect their survival.	<ul style="list-style-type: none"> ● 6b Picture This! ● 7 Habitat Pen Pals ● 8 The Forest Of S.T. Shrew <input type="checkbox"/> 22bv Trees As Habitats <input type="checkbox"/> 24 Nature's Recyclers <input type="checkbox"/> 25 Birds and Worms <ul style="list-style-type: none"> ● 27 Every Tree for Itself <input type="checkbox"/> 30 Three Cheers for Trees <input type="checkbox"/> 31 Plant a Tree <input type="checkbox"/> 32 A Forest of Many Uses <input type="checkbox"/> 36a Pollution Search <ul style="list-style-type: none"> ● 42 Sunlight and Shades of Green <input type="checkbox"/> 46 Schoolyard Safari	<ul style="list-style-type: none"> ● 48v Field, Forest, and Stream <input type="checkbox"/> 49a Tropical Treehouse <input type="checkbox"/> 54a I'd Like to Visit a Place Where..... <input type="checkbox"/> 61 The Closer You Look <input type="checkbox"/> 65 Bursting Buds <input type="checkbox"/> 76 Tree Cookies <input type="checkbox"/> 77a Trees in Trouble <ul style="list-style-type: none"> ● 78 Signs of Fall <input type="checkbox"/> 79 Tree Lifecycle <ul style="list-style-type: none"> ● 80a Nothing Succeeds Like Succession <input type="checkbox"/> 87 Earth Manners <input type="checkbox"/> 89 Trees of Many Reasons
3-2.5	Summarize the organization of simple food chains (including the roles of producers, consumers, and decomposers).	<input type="checkbox"/> 8 The Forest Of S.T. Shrew <input type="checkbox"/> 22bv Trees As Habitats <ul style="list-style-type: none"> ● 24 Nature's Recyclers <input type="checkbox"/> 25 Birds and Worms <input type="checkbox"/> 28 Air Plants <input type="checkbox"/> 42 Sunlight and Shades of Green <input type="checkbox"/> 46 Schoolyard Safari	

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Earth's Materials and Changes

Standard 3-3: The student will demonstrate an understanding of Earth's composition and the changes that occur to the features of Earth's surface. (Earth Science)

Indicators

PLT Activities

<p>3-3.1 Classify rocks (including sedimentary, igneous, and metamorphic) and soils (including humus, clay, sand, and silt) on the basis of their properties.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Nature's Recyclers <input type="checkbox"/> Who Works in this Forest? <input type="checkbox"/> 48v Field, Forest, and Stream <input type="checkbox"/> 70a Soil Stories
<p>3-3.2 Identify common minerals on the basis of their properties by using a minerals identification key.</p>	
<p>3-2.3 Recognize types of fossils (including molds, casts, and preserved parts of plants and animals).</p>	
<p>3-3.3 Infer ideas about Earth's early environments from fossils of plants and animals that lived long ago.</p>	
<p>3-3.5 Illustrate Earth's saltwater and freshwater features (including oceans, seas, rivers, lakes, ponds, streams, and glaciers).</p>	
<p>3-3.6 Illustrate Earth's land features (including volcanoes, mountains, valleys, canyons, caverns, and islands) by using models, pictures, diagrams, and maps.</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 20 Environmental Exchange Box
<p>3-3.7 Exemplify Earth materials that are used as fuel, as a resource for building materials, and as a medium for growing plants.</p>	<ul style="list-style-type: none"> ● 15a A Few Of My Favorite Things <input type="checkbox"/> 27 Every Tree for Itself <input type="checkbox"/> 36a Pollution Search <input type="checkbox"/> 39a Energy Sleuths <input type="checkbox"/> 48v Field, Forest, and Stream <input type="checkbox"/> 53v On the Move ● 70a Soil Stories <input type="checkbox"/> 89a Native Ways

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<p>3-3.8 Illustrate changes in Earth's surface that are due to slow processes (including weathering, erosion, and deposition) and changes that are due to rapid processes (including landslides, volcanic eruptions, floods, and earthquakes).</p>	<p><input type="checkbox"/> 70a Soil Stories</p>
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Heat and Changes in Matter

Standard 3-4: The student will demonstrate an understanding of the changes in matter that are caused by heat.

Indicators

PLT Activities

<p>3-4.1 Classify different forms of matter (including solids, liquids, and gases) according to their observable and measurable properties.</p>	
<p>3-4.2 Explain how water and other substances change from one state to another (including melting, freezing, condensing, boiling, and evaporating).</p>	
<p>3-4.3 Explain how heat moves easily from one object to another through direct contact in some materials (called conductors) and not so easily through other materials (called insulators).</p>	
<p>3-4.4 Identify sources of heat and exemplify ways that heat can be produced (including rubbing, burning, and using electricity).</p>	

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Motion and Sound

Standard 3-5: The student will demonstrate an understanding of how motion and sound are affected by a push or pull on an object and the vibration of an object. (Physical Science)

Indicators

PLT Activities

3-5.1 Identify the position of an object relative to a reference point by using position terms such as “above,” “below,” “inside of,” “underneath,” or “on top of” and a distance scale or measurement.	<input type="checkbox"/> 4bd Sounds Around
3-5.2 Compare the motion of common objects in terms of speed and direction.	<input type="checkbox"/> 53v On the Move
3-5.3 Explain how the motion of an object is affected by the strength of a push or pull and the mass of the object.	<input type="checkbox"/> 53v On the Move
3-5.4 Explain the relationship between the motion of an object and the pull of gravity.	
3-5.5 Recall that vibrating objects produce sound and that vibrations can be transferred from one material to another.	<input type="checkbox"/> 4bd Sounds Around
3-5.6 Compare the pitch and volume of different sounds.	● 4bd Sounds Around
3-5.7 Recognize ways to change the volume of sounds.	
3-5.8 Explain how the vibration of an object affects pitch.	

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- Standard Partially Addressed or Reinforced