

# Inquiry and Content Standards from National Science Education Standards & The Garden Earth Naturalist Curricula

Standard A: <i>Develop abilities to:</i>	Pollination	Food	Air	Soil	Pest Control	Ecosystem	Biodiversity	Water	Service Learning
<b>Ask a question about objects, organisms, and events in the environment (K-4)</b>	Bees! Hardworking PD (Pollination Department) Workers! A Relay Race  The Pollination Department on our Site! Discovery Hunts  Human Cameras  Parts of a Flower! Flower Dissection  GEN Journaling: My Life as a Pollinator!  Pollinators on the Move!  Monarch Journey  Reflect: How can I Help Pollinators?	Who's Eating on My School Site?  Are You on the Right Track?  Seed Eaters Undercover!  Discovering Owl Pellets	Investigating UV Radiation with UV Sensitive Beads	Welcome to the Soil Dept.  Walking on Ecosystems: Microhabitats Under foot  Puppet Show: Oli Earthworm's Recipe for Soil  Worming Around in the Soil  Edible Soil  Reflection: QAD  Who's Living in my Soil?  Making Soil – How does soil form?  Water Infiltration: Getting Water Where It's Needed  Basic Soil Chemistry: pH  My Soil is Better than Your Soil  Reflect: Compare and Contrast	Welcome to the Pest and Disease Control Dept.  Are You a Pest?  The Trial of Mitsy-Bitsy Mosquito  Pest and Disease Discovery Walk  Who is an Insect?  Who Eats What?  Who Wants to be Eaten? Invertebrate Defenses  Predators, Parasites, Parasitoids and Pathogens  Bat and Moth  Native and Alien Plant Species	Welcome to the Garden Earth! Powerpoint  Foreco's Blindfold Walk  Eco-service Workers: Hard at Work on Your School Site  At Your Service! Eco-services Discovery Hunt!  Habitat for the Garden Earth Managers  Scientific Method and Dancing Raisins  Scientific Method: What makes a Class Champion Thumb Wrestler?  Investigating Climate and Ecosystems  Foreco's Forest – A Puppet Show  Garden Earth Department Manager Badges  Earth Eggs  Let's Make a Nature Journal	Extinct!  Welcome to the Biodiversity Dept.  Biodiversity is Amazing! Hunt  Reflection: Drawing while Reflecting about Biodiversity  Who and What Lives Here? Biodiversity Survey-Plot Sampling  Reflection: Graphing while Reflecting about Biodiversity  Medicinal Plant Scavenger Hunt  Candy Bar Dissection  Ethnobotany Powerpoint  Ethnobotany Bingo	Welcome to the Water Purification Dept.!  Earth's Water Supply and Usage  Clean Water Anyone?  It's all Going Down the Drain!  GEN Journaling: Traveling with a Drop of Water  One Thing Leads to Another!  You Can Always Go Downstream  Reflection: Water Department Sentence Stems  Water Erosion  Reflection: What? So What? Now What?  Water Wars!	Berry Garden  Edible Water Garden  Herb Spiral  "Instant" Garden  Keyhole Garden  Mini Forest Garden  Perennial Vegetable Garden  Rainwater Catchment  Tire Garden  Yummy Compost
<b>Identify questions</b>	Bees! Hardworking PD	Who's Eating on My School Site?	Investigating UV Radiation	Walking on Ecosystems:	Pest and Disease Discovery Walk	At Your Service! Eco-services	Who and What Lives Here? Biodiversity	What is your Water Footprint?	

<p><b>that can be answered through scientific investigations (5-8)</b></p>	<p>(Pollination Department) Workers! A Relay Race</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Parts of a Flower! Flower Dissection</p>	<p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Discovering Owl Pellets</p>	<p>with UV Sensitive Beads</p>	<p>Microhabitats Under foot</p> <p>Worming Around in the Soil</p> <p>Water Infiltration: Getting Water Where It's Needed</p> <p>Basic Soil Chemistry: pH</p> <p>My Soil is Better than Your Soil</p>		<p>Discovery Hunt!</p> <p>Scientific Method and Dancing Raisins</p> <p>Scientific Method: What makes a Class Champion Thumb Wrestler?</p> <p>Investigating Climate and Ecosystems</p>	<p>Survey-Plot Sampling</p> <p>Line Transect: Surveying Biodiversity in a Small School Site Community</p>	<p>Looking at Water pH</p> <p>Stream Study</p>	
<p><b>Plan and conduct a simple investigation – describing objects, events, and organisms; classifying them; and, doing a fair test (K-4)</b></p>	<p>The Pollination Department on our Site! Discovery Hunts</p>	<p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Discovering Owl Pellets</p>	<p>Investigating UV Radiation with UV Sensitive Beads</p>	<p>Walking on Ecosystems: Microhabitats Under foot</p> <p>Worming Around in the Soil</p>	<p>Pest and Disease Discovery Walk</p>	<p>Eco-service Workers: Hard at Work on Your School Site</p> <p>Scientific Method: What makes a Class Champion Thumb Wrestler?</p> <p>Investigating Climate and Ecosystems</p>	<p>Who and What Lives Here? Biodiversity Survey-Plot Sampling</p> <p>Line Transect: Surveying Biodiversity in a Small School Site Community</p>	<p>Water Erosion</p> <p>Stream Study</p>	
<p><b>Design and conduct a scientific investigation (5-8)</b></p>	<p>The Pollination Department on our Site! Discovery Hunts</p>	<p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Discovering Owl Pellets</p>	<p>Investigating UV Radiation with UV Sensitive Beads</p>	<p>Walking on Ecosystems: Microhabitats Under foot</p> <p>Water Infiltration: Getting Water Where It's Needed</p> <p>Basic Soil Chemistry: pH</p> <p>My Soil is Better than Your Soil</p>		<p>Scientific Method: What makes a Class Champion Thumb Wrestler?</p> <p>Investigating Climate and Ecosystems</p>	<p>Who and What Lives Here? Biodiversity Survey-Plot Sampling</p> <p>Line Transect: Surveying Biodiversity in a Small School Site Community</p>	<p>Looking at Water pH</p> <p>Stream Study</p>	
<p><b>Employ simple equipment and tools to gather data and extend the senses- rulers, thermometers, watches, balance</b></p>	<p>Human Cameras</p> <p>Parts of a Flower! Flower Dissection</p>			<p>Walking on Ecosystems: Microhabitats Under foot</p> <p>Water Infiltration:</p>	<p>Pest and Disease Discovery Walk</p>	<p>At Your Service! Eco-services Discovery Hunt!</p> <p>Scientific Method: What makes a Class Champion</p>	<p>Line Transect: Surveying Biodiversity in a Small School Site Community</p>	<p>What is your Water Footprint?</p> <p>Looking at Water pH</p> <p>Stream Study</p>	

<b>beams, and spring scales, magnifiers, microscopes, computers, and calculators (K-4)</b>				Getting Water Where It's Needed Basic Soil Chemistry: pH My Soil is Better than Your Soil		Thumb Wrestler? Investigating Climate and Ecosystems			
<b>Use appropriate tools and techniques to gather, analyze, and interpret data (5-8)</b>				Walking on Ecosystems: Microhabitats Under foot Water Infiltration: Getting Water Where It's Needed Basic Soil Chemistry: pH My Soil is Better than Your Soil	Pest and Disease Discovery Walk	Scientific Method: What makes a Class Champion Thumb Wrestler? Investigating Climate and Ecosystems	Line Transect: Surveying Biodiversity in a Small School Site Community	Looking at Water pH Stream Study	
<b>Use data to construct a reasonable explanation (K-4)</b>		Who's Eating on My School Site? Are You on the Right Track? Seed Eaters Undercover! Discovering Owl Pellets	Investigating UV Radiation with UV Sensitive Beads			Scientific Method and Dancing Raisins Scientific Method: What makes a Class Champion Thumb Wrestler? Investigating Climate and Ecosystems	Who and What Lives Here? Biodiversity Survey-Plot Sampling Line Transect: Surveying Biodiversity in a Small School Site Community	What is your Water Footprint? Looking at Water pH Stream Study	
<b>Develop descriptions, explanation, predictions, and models using evidence (5-8)</b>		Who's Eating on My School Site? Are You on the Right Track? Discovering Owl Pellets		Walking on Ecosystems: Microhabitats Under foot Worming Around in the Soil		Scientific Method: What makes a Class Champion Thumb Wrestler? Investigating Climate and Ecosystems	Who and What Lives Here? Biodiversity Survey-Plot Sampling Line Transect: Surveying Biodiversity in a Small School Site Community	Earth's Water Supply and Usage Water Erosion Stream Study	
<b>Communicate investigations and explanations (K-4)</b>	GEN Journaling: My Life as a Pollinator!	Who's Eating on My School Site? Are You on the Right Track? Seed Eaters	Investigating UV Radiation with UV Sensitive Beads	Reflection: QAD Basic Soil Chemistry: pH My Soil is		At Your Service! Eco-services Discovery Hunt! Scientific Method: What makes a Class Champion	Reflection: Drawing while Reflecting about Biodiversity Reflection: Graphing while Reflecting about Biodiversity	GEN Journaling: Traveling with a Drop of Water Reflection: Water Department Sentence Stems	

		Undercover!		Better than Your Soil  Reflect: Compare and Contrast		Thumb Wrestler?  Investigating Climate and Ecosystems  Journaling with Aldo Leopold: "Thinking Like a Mountain"  Let's Make a Nature Journal	Journaling: Plants around the World	Reflection: What? So What? Now What?  Journaling: Water Rights Superhero!  Stream Study	
<b>Think critically and logically to make the relationships between evidence and explanations (5-8)</b>		Who's Eating on My School Site?  Are You on the Right Track?  Seed Eaters Undercover!  Discovering Owl Pellets	Investigating UV Radiation with UV Sensitive Beads			Scientific Method and Dancing Raisins  Scientific Method: What makes a Class Champion Thumb Wrestler?  Investigating Climate and Ecosystems  Journaling with Aldo Leopold: "Thinking Like a Mountain"	Reflection: Graphing while Reflecting about Biodiversity	Water Erosion  Looking at Water pH  Stream Study	
<b>Recognize and analyze alternative explanations and predictions (5-8)</b>		Are You on the Right Track?  Seed Eaters Undercover!  Discovering Owl Pellets				Investigating Climate and Ecosystems		Looking at Water pH	
<b>Communicate scientific procedures and explanations (5-8)</b>		Who's Eating on My School Site?  Are You on the Right Track?  Discovering Owl Pellets	Investigating UV Radiation with UV Sensitive Beads	Reflection: QAD  Reflect: Compare and Contrast		At Your Service! Eco-services Discovery Hunt!  Scientific Method and Dancing Raisins  Scientific Method: What makes a Class Champion Thumb Wrestler?  Investigating Climate and Ecosystems	Who and What Lives Here? Biodiversity Survey-Plot Sampling  Line Transect: Surveying Biodiversity in a Small School Site Community	Looking at Water pH  Stream Study	

						Journaling with Aldo Leopold: "Thinking Like a Mountain"			
<b>Use mathematics in all aspects of scientific inquiry (5-8)</b>				Water Infiltration: Getting Water Where It's Needed		Scientific Method: What makes a Class Champion Thumb Wrestler?  Investigating Climate and Ecosystems	Who and What Lives Here? Biodiversity Survey-Plot Sampling  The Consequences of Wild Collecting	Earth's Water Supply and Usage  What is your Water Footprint?	
<b>Standard B:</b> <i>Develop an understanding of:</i>	<b>Pollination</b>	<b>Food</b>	<b>Air</b>	<b>Soil</b>	<b>Pest Control</b>	<b>Ecosystem</b>	<b>Biodiversity</b>	<b>Water</b>	<b>Service Learning</b>
<b>Properties of objects and materials (K-4)</b>			Which Tree is Biggest?  How A Tree Works!			Foreco's Blindfold Walk  Scientific Method and Dancing Raisins			
<b>Properties and changes of properties of matter (5-8)</b>								It's all Going Down the Drain!  GEN Journaling: Traveling with a Drop of Water	
<b>Position, and motion of objects (K-4)</b>			How A Tree Works!						
<b>Motions and forces (5-8)</b>									
<b>Light, heat, electricity, and magnetism (K-4)</b>			Colors of a Leaf  Investigating UV Radiation with UV Sensitive Beads						
<b>Transfer of energy (5-8)</b>		Silent Food Chains	Colors of a Leaf  Investigating UV Radiation with UV Sensitive Beads  The Day Sol Refused To Shine						

<b>Standard C: Develop an understanding of:</b>	<b>Pollination</b>	<b>Food</b>	<b>Air</b>	<b>Soil</b>	<b>Pest Control</b>	<b>Ecosystem</b>	<b>Biodiversity</b>	<b>Water</b>	<b>Service Learning</b>
<b>Characteristics of organisms (K-4)</b>	<p>Suga and her 6 B's Puppet show</p> <p>Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!</p> <p>Make a Human Flower: How Plants Communicate!</p> <p>Bees! Hardworking PD (Pollination Department) Workers! A Relay Race</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Human Cameras</p> <p>Parts of a Flower! Flower Dissection</p> <p>GEN Journaling: My Life as a Pollinator!</p> <p>Pollinators on the Move!</p>	<p>Welcome to the Food Production Department! <i>PowerPoint</i></p> <p>Madame Squirrel's Restaurant Puppet Show</p> <p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food Chains</p> <p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Hummingbird Paper Flowers</p> <p>Discovering Owl Pellets</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>How A Tree Works!</p> <p>Colors of a Leaf</p> <p>Chipko Tree Hugging</p> <p>Old Man Spruce's Tree Hunt</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>	<p>Worming Around in the Soil</p> <p>Who's Living in my Soil?</p>	<p>Welcome to the Pest and Disease Control Dept.</p> <p>Are You a Pest?</p> <p>Pest and Disease Discovery Walk</p> <p>Who is an Insect?</p> <p>I am an Insect!</p> <p>Build Your Own Insect</p> <p>Match the Insects!</p> <p>Meet the Invertebrates Puppet Show</p> <p>Who Eats What?</p> <p>Who Wants to be Eaten? Invertebrate Defenses</p> <p>Predators, Parasites, Parasitoids and Pathogens</p> <p>Harry Hedgehog Gets a Job</p> <p>Native and Alien Plant Species</p>	<p>At Your Service! Eco-services Discovery Hunt!</p> <p>Habitat for the Garden Earth Managers</p> <p>Investigating Climate and Ecosystems</p>	<p>Biodiversity is Amazing! Hunt</p> <p>Biomes: What and Who Lives Where?</p> <p>Medicinal Plant Scavenger Hunt</p>	<p>Stream Study</p>	<p>Berry Garden</p> <p>Edible Water Garden</p> <p>Herb Spiral</p> <p>"Instant" Garden</p> <p>Keyhole Garden</p> <p>Mini Forest Garden</p> <p>Perennial Vegetable Garden</p>
<b>Structure and function in living systems (5-8)</b>	<p>Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly,</p>	<p>Silent Food Chains</p> <p>Seed Eaters Undercover!</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with</p>	<p>Worming Around in the Soil</p>	<p>Welcome to the Pest and Disease Control Dept.</p> <p>The Trial of Mitsy- Bitsy Mosquito</p>	<p>Eco-service Workers: Hard at Work on Your School Site</p> <p>At Your Service!</p>	<p>Welcome to the Biodiversity Dept.</p> <p>Biodiversity is Amazing! Hunt</p>	<p>Stream Study</p>	<p>Berry Garden</p> <p>Edible Water Garden</p> <p>Herb Spiral</p>

	<p>A Bee!</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Human Cameras</p> <p>Parts of a Flower! Flower Dissection</p> <p>GEN Journaling: My Life as a Pollinator!</p>	<p>Discovering Owl Pellets</p>	<p>Old Man Spruce Puppet Show</p> <p>Which Tree is Biggest?</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>		<p>Pest and Disease Discovery Walk</p> <p>Insect Communication: Termites</p> <p>Who Wants to be Eaten? Invertebrate Defenses</p>	<p>Eco-services Discovery Hunt!</p> <p>Investigating Climate and Ecosystems</p>	<p>Biomes: What and Who Lives Where?</p>		<p>"Instant" Garden</p> <p>Keyhole Garden</p> <p>Mini Forest Garden</p> <p>Perennial Vegetable Garden</p>
<p><b>Life cycles of organisms (K-4)</b></p>	<p>Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>GEN Journaling: My Life as a Pollinator!</p> <p>Pollinators on the Move!</p>	<p>Silent Food Chains</p> <p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Discovering Owl Pellets</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>How A Tree Works!</p> <p>Old Man Spruce's Tree Hunt</p> <p>Seed Necklace</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>		<p>Are You a Pest?</p> <p>The Trial of Mitsy-Bitsy Mosquito</p> <p>Who is an Insect?</p> <p>Predators, Parasites, Parasitoids and Pathogens</p>	<p>Investigating Climate and Ecosystems</p>	<p>The Consequences of Wild Collecting</p>	<p>Stream Study</p>	<p>Perennial Vegetable Garden</p>

<b>Reproduction and heredity (5-8)</b>	<p>Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!</p> <p>Make a Human Flower: How Plants Communicate!</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Human Cameras</p> <p>Parts of a Flower! Flower Dissection</p> <p>GEN Journaling: My Life as a Pollinator!</p> <p>Pollinators on the Move!</p>	<p>Hummingbird Paper Flowers</p> <p>Discovering Owl Pellets</p>	<p>How Clean is My Air?</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>						
<b>Organisms and environments (K-4)</b>	<p>Suga and her 6 B's Puppet show</p> <p>Investigate</p>	<p>Welcome to the Food Production Department! <i>PowerPoint</i></p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p>	<p>Worming Around in the Soil</p> <p>Who's Living</p>	<p>Welcome to the Pest and Disease Control Dept.</p> <p>Are You a Pest?</p>	<p>Welcome to the Garden Earth! Powerpoint</p> <p>Foreco's Blindfold</p>	<p>Extinct!</p> <p>Welcome to the Biodiversity Dept.</p>	<p>Clean Water Anyone?</p> <p>One Thing Leads to Another!</p>	<p>Berry Garden</p> <p>Edible Water Garden</p>



	<p>The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!</p> <p>Make a Human Flower: How Plants Communicate!</p> <p>Bees! Hardworking PD (Pollination Department) Workers! A Relay Race</p> <p>The Pollination Department on our Site! : Discovery Hunts</p> <p>Human Cameras</p>	<p>Madame Squirrel's Restaurant Puppet Show</p> <p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food Chains</p> <p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Hummingbird Paper Flowers</p> <p>Discovering Owl Pellets</p>	<p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>How A Tree Works!</p> <p>Colors of a Leaf</p> <p>Chipko Tree Hugging</p> <p>Investigating UV Radiation with UV Sensitive Beads</p> <p>Old Man Spruce's Tree Hunt</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>	<p>in my Soil?</p>	<p>The Trial of Mitsy-Bitsy Mosquito</p> <p>Pest and Disease Discovery Walk</p> <p>Native and Alien Plant Species</p>	<p>Walk</p> <p>Eco-service Workers: Hard at Work on Your School Site</p> <p>At Your Service! Eco-services Discovery Hunt!</p> <p>Habitat for the Garden Earth Managers</p> <p>Eco-Systems Thinking: Order in the Ecosystem!</p> <p>Investigating Climate and Ecosystems</p> <p>Foreco's Forest – A Puppet Show</p>	<p>Warning Labels</p> <p>Biomes: What and Who Lives Where?</p> <p>Who and What Lives Here? Biodiversity Survey-Plot Sampling</p> <p>Line Transect: Surveying Biodiversity in a Small School Site Community</p> <p>The Consequences of Wild Collecting</p>	<p>Stream Study</p>	<p>Herb Spiral</p> <p>“Instant” Garden</p> <p>Keyhole Garden</p> <p>Mini Forest Garden</p> <p>Perennial Vegetable Garden</p>
<p><b>Regulation and behavior (5-8)</b></p>	<p>Suga and her 6 B's Puppet show</p> <p>Make a Human Flower: How Plants Communicate!</p> <p>Bees! Hardworking PD (Pollination Department) Workers!</p>	<p>Welcome to the Food Production Department! <i>PowerPoint</i></p> <p>Madame Squirrel's Restaurant Puppet Show</p> <p>Silent Food Chains</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p>	<p>Worming Around in the Soil</p>	<p>Who Wants to be Eaten? Invertebrate Defenses</p> <p>Predators, Parasites, Parasitoids and Pathogens</p> <p>Bat and Moth</p>	<p>Investigating Climate and Ecosystems</p>		<p>Stream Study</p>	

	<p>A Relay Race</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Pollinators on the Move!</p> <p>Monarch Journey</p>	<p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Hummingbird Paper Flowers</p> <p>Discovering Owl Pellets</p>	<p>How A Tree Works!</p> <p>Chipko Tree Hugging</p> <p>Old Man Spruce's Tree Hunt</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>					
<b>Populations and ecosystems (5-8)</b>	<p>Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!</p> <p>The Pollination Department on our Site! Discovery Hunts</p> <p>Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations</p> <p>Monarch Journey</p>	<p>Welcome to the Food Production Department! <i>PowerPoint</i></p> <p>Madame Squirrel's Restaurant Puppet Show</p> <p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food Chains</p> <p>Who's Eating on My School Site?</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p> <p>Hummingbird Paper Flowers</p> <p>Discovering Owl Pellets</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>Which Tree is Biggest?</p> <p>How A Tree Works!</p> <p>Chipko Tree Hugging</p> <p>Investigating UV Radiation with UV Sensitive Beads</p> <p>Old Man Spruce's Tree Hunt</p> <p>Seed Necklace</p> <p>Old Man Spruce Fights Air Pollution:</p>	<p>Are You a Pest?</p> <p>Pest and Disease Discovery Walk</p> <p>Harry Hedgehog Gets a Job</p> <p>Native and Alien Plant Species</p>	<p>The Six Blind People and the Ecosystem</p> <p>Foreco's Blindfold Walk</p> <p>Eco-service Workers: Hard at Work on Your School Site</p> <p>At Your Service! Eco-services Discovery Hunt!</p> <p>Habitat for the Garden Earth Managers</p> <p>Eco-Systems Thinking: Order in the Ecosystem!</p> <p>Journaling with Aldo Leopold: "Thinking Like a Mountain"</p> <p>Foreco's Forest – A Puppet Show</p> <p>Garden Earth</p>	<p>Welcome to the Biodiversity Dept.</p> <p>Biomes: What and Who Lives Where?</p> <p>The Consequences of Wild Collecting</p>	<p>Stream Study</p>	

			Puppet Show Roger Root Meets Old Man Spruce Puppet Show			Department Manager Badges			
<b>Diversity and adaptations of organisms (5-8)</b>	Investigate The Pollination Department: One, Two, Three: A Beetle A Butterfly, A Bee!  Bees! Hardworking PD (Pollination Department) Workers! A Relay Race  The Pollination Department on our Site! : Discovery Hunts  Butterflies: Garden Earth's Beautiful Pollinators! Butterfly Life Cycle Stations  Human Cameras  Parts of a Flower! Flower Dissection  Pollinators on the Move!  Monarch Journey	Welcome to the Food Production Department! <i>PowerPoint</i>  Madame Squirrel's Restaurant Puppet Show  Madame Squirrel's Treasure Hunt  Silent Food Chains  Who's Eating on My School Site?  Are You on the Right Track?  Seed Eaters Undercover!  Hummingbird Paper Flowers  Discovering Owl Pellets	Welcome to the Air Cleaning Department! <i>PowerPoint</i>  A Visit with Old Man Spruce Puppet Show  How Clean is My Air?  Which Tree is Biggest?  How A Tree Works!  Chipko Tree Hugging  Investigating UV Radiation with UV Sensitive Beads  Old Man Spruce's Tree Hunt  Seed Necklace  Old Man Spruce Fights Air Pollution: Puppet Show  Roger Root Meets Old Man Spruce Puppet Show		Who is an Insect?  I am an Insect!  Build Your Own Insect  Meet the Invertebrates Puppet Show  Who Eats What?  Insect Communication: Termites  Who Wants to be Eaten? Invertebrate Defenses  Predators, Parasites, Parasitoids and Pathogens  Harry Hedgehog Gets a Job  Native and Alien Plant Species	At Your Service! Eco-services Discovery Hunt!	Extinct!  Welcome to the Biodiversity Dept.  Biodiversity is Amazing! Hunt  Biomes: What and Who Lives Where?  Who and What Lives Here? Biodiversity Survey-Plot Sampling  Line Transect: Surveying Biodiversity in a Small School Site Community	Stream Study	
<b>Standard D: Develop an understanding of:</b>	<b>Pollination</b>	<b>Food</b>	<b>Air</b>	<b>Soil</b>	<b>Pest Control</b>	<b>Ecosystem</b>	<b>Biodiversity</b>	<b>Water</b>	<b>Service Learning</b>

<b>Properties of earth materials (K-4)</b>		<p>Welcome to the Food Production Department! <i>PowerPoint</i></p> <p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food Chains</p>	<p>Which Tree is Biggest?</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>Roger Root Meets Old Man Spruce Puppet Show</p>	<p>Welcome to the Soil Dept.</p> <p>Walking on Ecosystems: Microhabitats Under foot</p> <p>Puppet Show: Oli Earthworm's Recipe for Soil</p> <p>Edible Soil</p> <p>Making Soil – How does soil form?</p> <p>Water Infiltration: Getting Water Where It's Needed</p> <p>Basic Soil Chemistry: pH</p> <p>My Soil is Better than Your Soil</p>				<p>Welcome to the Water Purification Dept.!</p> <p>Earth's Water Supply and Usage</p> <p>Clean Water Anyone?</p> <p>It's all Going Down the Drain!</p> <p>GEN Journaling: Traveling with a Drop of Water</p> <p>Water Erosion</p> <p>Looking at Water pH</p>	<p>Yummy Compost</p>
<b>Objects in the sky – living and nonliving (K-4)</b>			<p>Investigating UV Radiation with UV Sensitive Beads</p> <p>Investigating UV Radiation with UV Sensitive Beads</p> <p>The Day Sol Refused To Shine</p>						
<b>Changes in earth and sky (K-4)</b>				<p>Welcome to the Soil Dept.</p>				<p>Water Erosion</p>	
<b>Structure of the earth system (5-8)</b>		<p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food</p>	<p>Chipko Tree Hugging</p> <p>Old Man Spruce Fights</p>	<p>Welcome to the Soil Dept.</p> <p>Walking on Ecosystems:</p>		<p>Welcome to the Garden Earth! Powerpoint</p>		<p>Welcome to the Water Purification Dept.!</p>	<p>Rainwater Catchment</p> <p>Yummy Compost</p>

		Chains	Air Pollution: Puppet Show  The Day Sol Refused To Shine	Microhabitats Under foot  Puppet Show: Oli Earthworm's Recipe for Soil  Edible Soil  Making Soil – How does soil form?  Water Infiltration: Getting Water Where It's Needed  Basic Soil Chemistry: pH  My Soil is Better than Your Soil				Earth's Water Supply and Usage  Clean Water Anyone?  GEN Journaling: Traveling with a Drop of Water  What's Your Waters' Address?	
Earth's history (5-8)									
Earth in the solar system (5-8)			Investigating UV Radiation with UV Sensitive Beads						
<b>Standard E: Develops :</b>	<b>Pollination</b>	<b>Food</b>	<b>Air</b>	<b>Soil</b>	<b>Pest Control</b>	<b>Ecosystem</b>	<b>Biodiversity</b>	<b>Water</b>	<b>Service Learning</b>
<b>Abilities of technological design, and understandings about science and technology, and, abilities to distinguish between natural objects and objects made by humans (K-4)</b>			Investigating UV Radiation with UV Sensitive Beads  Investigating UV Radiation with UV Sensitive Beads						Berry Garden  Edible Water Garden  Herb Spiral  Keyhole Garden  Mini Forest Garden  Perennial Vegetable Garden  Rainwater Catchment  Tire Garden

									Yummy Compost Berry Garden Edible Water Garden Herb Spiral Keyhole Garden Mini Forest Garden Perennial Vegetable Garden Rainwater Catchment Tire Garden Yummy Compost
<b>Abilities of technology design and understandings about science and technology (5-8)</b>			Investigating UV Radiation with UV Sensitive Beads						
<b>Standard F: Develop and understanding of:</b>	<b>Pollination</b>	<b>Food</b>	<b>Air</b>	<b>Soil</b>	<b>Pest Control</b>	<b>Ecosystem</b>	<b>Biodiversity</b>	<b>Water</b>	<b>Service Learning</b>
<b>Personal health (K-4), (5-8)</b>			Welcome to the Air Cleaning Department! <i>PowerPoint</i>  A Visit with Old Man Spruce Puppet Show  How Clean is My Air?  Which Tree is Biggest?  Investigating UV Radiation with UV Sensitive Beads  Old Man Spruce Fights Air Pollution: Puppet Show  The Day Sol Refused To Shine		The Trial of Mitsy-Bitsy Mosquito  Predators, Parasites, Parasitoids and Pathogens		Medicinal Plant Scavenger Hunt	Earth's Water Supply and Usage  Clean Water Anyone?  It's all Going Down the Drain!  Water for Life  Water Wars!	Berry Garden Edible Water Garden Herb Spiral
<b>Characteristics and</b>	Suga and her 6 B's	Are You on the	Welcome to the				Warning Labels	Stream Study	

<p><b>changes in populations (K-4)</b></p>	<p>Puppet show</p>	<p>Right Track? Seed Eaters Undercover!</p>	<p>Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>Investigating UV Radiation with UV Sensitive Beads</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p>						
<p><b>Types of resources (K-4)</b></p>	<p>Suga and her 6 B's Puppet show</p>	<p>Madame Squirrel's Treasure Hunt</p> <p>Silent Food Chains</p> <p>Are You on the Right Track?</p> <p>Seed Eaters Undercover!</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>Chipko Tree Hugging</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p> <p>Welcome to the</p>	<p>Walking on Ecosystems: Microhabitats Under foot</p> <p>Puppet Show: Oli Earthworm's Recipe for Soil</p> <p>Edible Soil</p> <p>Who's Living in my Soil?</p> <p>Making Soil – How does soil form?</p> <p>Water Infiltration: Getting Water Where It's Needed</p> <p>Basic Soil Chemistry: pH</p>	<p>Welcome to the Pest and Disease Control Dept.</p>	<p>The Six Blind People and the Ecosystem</p> <p>Foreco's Blindfold Walk</p> <p>At Your Service! Eco-services Discovery Hunt!</p> <p>Habitat for the Garden Earth Managers</p> <p>Foreco's Forest – A Puppet Show</p>	<p>Extinct!</p> <p>Medicinal Plant Scavenger Hunt</p> <p>The Consequences of Wild Collecting</p> <p>Candy Bar Dissection</p> <p>Ethnobotany Powerpoint</p> <p>Ethnobotany Bingo</p> <p>Journaling: Plants around the World</p>	<p>Welcome to the Water Purification Dept.!</p> <p>Earth's Water Supply and Usage</p> <p>Clean Water Anyone?</p> <p>GEN Journaling: Traveling with a Drop of Water</p> <p>What's Your Waters' Address?</p> <p>Water for Life</p> <p>Water Wars!</p>	<p>Berry Garden</p> <p>Edible Water Garden</p> <p>Herb Spiral</p> <p>"Instant" Garden</p> <p>Keyhole Garden</p> <p>Mini Forest Garden</p> <p>Perennial Vegetable Garden</p> <p>Rainwater Catchment</p> <p>Tire Garden</p> <p>Yummy Compost</p>

			Food Production Department! <i>PowerPoint</i>  Madame Squirrel's Restaurant Puppet Show	My Soil is Better than Your Soil					
<b>Changes in environments (K-4)</b>	Suga and her 6 B's Puppet show  Monarch Journey  Reflect: How can I Help Pollinators?	Are You on the Right Track?  Seed Eaters Undercover!	Welcome to the Air Cleaning Department! <i>PowerPoint</i>  A Visit with Old Man Spruce Puppet Show  How Clean is My Air?  Which Tree is Biggest?  Old Man Spruce Fights Air Pollution: Puppet Show  The Day Sol Refused To Shine  Welcome to the Food Production Department! <i>PowerPoint</i>	Walking on Ecosystems: Microhabitats Under foot  Puppet Show: Oli Earthworm's Recipe for Soil  Making Soil – How does soil form?  My Soil is Better than Your Soil			Extinct!	Welcome to the Water Purification Dept.!  Clean Water Anyone?  Water Erosion  Looking at Water pH  Stream Study	Yummy Compost
<b>Science and technology in local challenges (K-4)</b>			Welcome to the Air Cleaning Department! <i>PowerPoint</i>  A Visit with Old Man Spruce Puppet Show  How Clean is My Air?  Which Tree is Biggest?					Clean Water Anyone?  It's all Going Down the Drain!  What's Your Waters' Address?  Water Wars!  Journaling: Water Rights Superhero!	Berry Garden  Edible Water Garden  Herb Spiral  "Instant" Garden  Keyhole Garden  Mini Forest Garden  Perennial Vegetable Garden



			<p>Chipko Tree Hugging</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p> <p>The Day Sol Refused To Shine</p>						<p>Rainwater Catchment</p> <p>Tire Garden</p> <p>Yummy Compost</p>
<p><b>Populations, resources, and environments (5-8)</b></p>	<p>Monarch Journey</p> <p>Reflect: How can I Help Pollinators?</p>	<p>Are You on the Right Track?</p>	<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>Chipko Tree Hugging</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show The Day Sol Refused To Shine</p>		<p>Are You a Pest?</p> <p>Pest and Disease Discovery Walk</p> <p>Harry Hedgehog Gets a Job</p> <p>Native and Alien Plant Species</p>	<p>The Six Blind People and the Ecosystem</p> <p>Eco-service Workers: Hard at Work on Your School Site</p> <p>At Your Service! Eco-services Discovery Hunt!</p>	<p>Warning Labels</p>	<p>Clean Water Anyone?</p> <p>You Can Always Go Downstream</p> <p>Water for Life</p> <p>Water Wars!</p> <p>Stream Study</p>	
<p><b>Natural hazards (5-8)</b></p>	<p>Monarch Journey</p> <p>Reflect: How can I Help Pollinators?</p>		<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p>		<p>Welcome to the Pest and Disease Control Dept.</p>		<p>Extinct!</p> <p>The Consequences of Wild Collecting</p>	<p>Welcome to the Water Purification Dept.!</p> <p>Clean Water Anyone?</p> <p>It's all Going Down the Drain!</p> <p>Water Erosion</p> <p>Looking at Water pH</p> <p>Water for Life</p>	

								Water Wars!	
<b>Risks and benefits (5-8)</b>			<p>Welcome to the Air Cleaning Department! <i>PowerPoint</i></p> <p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Which Tree is Biggest?</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p>		<p>Welcome to the Pest and Disease Control Dept.</p> <p>The Trial of Mitsy-Bitsy Mosquito</p> <p>Pest and Disease Discovery Walk</p> <p>Native and Alien Plant Species</p>			<p>Clean Water Anyone?</p> <p>One Thing Leads to Another!</p> <p>Looking at Water pH</p> <p>Water for Life</p> <p>Water Wars!</p>	
<b>Science and technology in society (5-8)</b>			<p>A Visit with Old Man Spruce Puppet Show</p> <p>How Clean is My Air?</p> <p>Investigating UV Radiation with UV Sensitive Beads</p> <p>Old Man Spruce Fights Air Pollution: Puppet Show</p>					<p>Clean Water Anyone?</p> <p>It's all Going Down the Drain!</p> <p>Water for Life</p> <p>Water Wars!</p>	<p>Berry Garden</p> <p>Edible Water Garden</p> <p>Herb Spiral</p> <p>"Instant" Garden</p> <p>Keyhole Garden</p> <p>Mini Forest Garden</p> <p>Perennial Vegetable Garden</p> <p>Rainwater Catchment</p> <p>Tire Garden</p> <p>Yummy Compost</p>