Junior Master Gardenersm Level 1 Teacher/Leader Guide Correlations: Georgia Performance Standards 5th Grade

Plant Growth and Development 5th 5th 5th 5th Grade Activity Grade Grade Grade **Social Studies** Science English LA Math 1. Hamburger Plant? - To become aware of dependence on plants as the originator of most food sources 2. Benefits Mobile - To be aware of the dependence all people have on plants 3. Know & Show Sombrero - To show an understanding of the benefits of plants to people 4. *Choo-Choo Song* - To associate a variety of plants with their food products by learning a song 5. *The Medicine Plant* - To recognize the medicinal properties of the aloe vera plant 1. Leaves & Seeds Sort Info Chart - To be able to S5I 1 classify leaves and seeds as monocots & dicots 1. *Plant Parts Rap* - To gain understanding of the main parts of a plant and role each performs 2. Touch & Tell - To use information learned about plant parts to identify plant materials by touch 3. *Plant Parts We Eat* - To identify the various plant parts that are used for food 4. **Seed Science** - To use the scientific method to determine the effect on plant growth of removing the cotyledons from seeds 5. *Flower Dissect* - To identify the different parts of a flower 1. P.L.A.N.T. Needs - To become familiar with plants' needs 2. What's Not the Same? - To become familiar with M5A1 variables and constants 3. *Plant People* - To show an understanding of plant needs through creative arts 4. Picture Yourself a Plant - To show an understanding of plant needs through creative arts 1. Coconut Float - To illustrate the different ways seeds are dispersed 2. **Plant Performance** - To develop an understanding ELA5W2 of plant needs through creative writing

3. <i>Topiary</i> - To create living, growing works of art			
4. <i>Power Seeds</i> - To observe the force seeds exhibit in the germination process			
1. <i>Oxygen Factory</i> - To illustrate the process of photosynthesis			
2. <i>Gas Gobblers</i> - To demonstrate the interdependence people and animals share with plants through the exchange of oxygen and carbon dioxide			
3. <i>Spinning Seeds</i> - To determine the effect of geotropism on plants			
Paper Pot - To create recyclable pots and propagate plants by seed			
2. <i>Gallon Greenhouse</i> - To show an understanding of the environment needed to propagate plants			
3. <i>Propagation Demonstration</i> - To demonstrate how to propagate plants by direct seeding, stem cuttings, leaf cuttings, root cuttings, division, and layering	S5L2		

Soils and Water

John and Water				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Touchy Feely</i> - To understand soil texture and the properties of different soil types and soil particles				
2. <i>Mud Pies</i> - To feel the difference in soil textures				
3. <i>Shake, Rattle, and Roll</i> - To identify amounts of soil particles that make up a soil's texture				
4. <i>Candy Aggregate</i> - To create an edible model illustrating that soil is made up of many different components	S5P1			
1. <i>Nutrient Variable</i> - To use scientific method to study the effects of fertilizer on plant growth				
2. <i>The Numbers on the Bag Song</i> - to gain an understanding of how nutrients in fertilizer help plants				
3. <i>Bumps Below</i> - To become familiar with plants that produce their own nitrogen				
1. Building Bins & Compost Sandwiches - To build a composting bin for creating organic matter to amend soil				
2. <i>Composting Critter Page</i> - To identify organisms that are a part of the composting process.	S5L4			
3. <i>Compost Sandwich Composition</i> - To compose a paragraph to support the claim that it is important to				

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S5P2			
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S5E1			
5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
S5CS8			
	S5P2 S5E1 Sth Grade Science	S5P2 S5P2 S5E1 Sth Grade Science English LA	S5P2 S5P2 S5P2 S5E1 Sth Grade English LA Sth Grade Math

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3. <i>Weighing Wastes</i> - To measure amount of food wastes produced at a meal and work to reduce wastes for the future.				
4. <i>Let's Try Organic</i> - To implement organic gardening ideas into a garden setting.				
5. <i>Xeriscape</i> - To build a garden site using water conservation concepts.				
1. <i>Vermi-Composting</i> - To recycle food wastes with vermi-composting.				
2. Super Mowing Machine - To utilize creativity to invent a new mowing machine.				
3. <i>Grow Cards</i> - To recycle newspaper to create plantable greeting cards.				
4. <i>Know & Show Recycling Sombrero</i> - To make wearable works of art showing materials that can be recycled.				
1. <i>Plant Pounding</i> - To transfer the likeness of plant parts to fabric.				
2. <i>Let's Dye It</i> - To color eggs or fabrics using dyes created from natural materials.				
3. <i>Nature Windows</i> - To create art using natural materials.				
4. <i>Garden Folk</i> - To build a scarecrow.				
5. <i>Nature Masks</i> - To create wearable art using natural materials.				
6. <i>Mother Nature's Children</i> - To create art using natural materials.				
Insects and Disease				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Insect Predictions and Survey</i> - To predict insect characteristics and learn what all insects have in common.	S5L1			
2. <i>Insect Symmetry</i> - To learn and understand the concept of symmetry.				
3. <i>The Great Cover-Up!</i> - To learn and understand the concept of camouflage.				
4. <i>Designer Bugs</i> - To reinforce concepts learned about insects so far: their characteristics and the concepts of symmetry and camouflage: their characteristics and the concepts of symmetry and camouflage.				

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5. <i>Insect Riddles</i> - To reinforce basic concepts learned about insects so far, and to experiment with creative writing concepts by creating riddles.			
6. <i>Secret Smells Game</i> - To discover how insects communicate using pheromones.			
1. All in the Family: Insect Flash Cards - To learn that insects are organized in groups based on their characteristics. To learn the characteristics common to all insects and the characteristics specific to a few groups of insects, called orders.	S5L1		
2. <i>Ordering Insects</i> - To learn to sort insects based on similarities and differences, and make a basic insect key.	S5L1		
3. <i>Metamorphosis Bracelets and Belts</i> - To learn the stages of metamorphosis.			
4. <i>Morpho Puppets</i> - To learn the stages of complete metamorphosis, and teach them to a younger group.			
5. <i>JMG Web Activity: Journey North</i> - To gain familiarity with the Internet as a research tool.			
1. <i>Suck-A-Bug</i> - To make a simple aspirator and use it to collect and observe small insects.			
2. <i>It's a Small World</i> - To create Berlese funnel and use it to collect and observe insects living in the ground and soil.			
3. <i>Classroom Netting</i> - To make an insect net and use it to collect samples of insects by sweeping.			
4. <i>By Land or By Sea</i> - To compare and contrast the types of insects living in different habitats.			
5. <i>Classroom Ant Lion Farm</i> - To make a living collection of one type of insect and observe it closely as it builds its home.			
1. <i>Chew on This!</i> - To learn the four types of insect mouthparts and how they are specialized.			
2. <i>Schoolyard Survey</i> - To survey the schoolyard for signs of insect damage and to determine the types of insects that caused the damage.			
3. <i>Pollinator Puppet Show</i> - To learn the basic process of insect pollination.			
4. <i>The Bartering System</i> - To learn how plants and insects trade services, and to become familiar with the concept of energy exchange.			
5. <i>The Lone Bee</i> - To learn about solitary bees and create a bee home for them.			
6. <i>Designer Plants and Insects</i> - To combine previously learned concepts in creating insects and plants that are designed to work together.			

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Landscape Horticulture

Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
1. <i>Rooms</i> - To understand that areas within a space serve a special purpose and to define those areas.				
2. <i>People and Places</i> - To understand that different people use yard space differently.				
3. <i>Money Trees</i> - To understand that trees help to save energy and money.				
4. <i>Site Map</i> - To experience an initial step in the landscape design process.	S5CS5			
1. <i>Nature Wheels</i> - To build a color wheel from items found in nature and understand the relationship of one color to another.				
2. <i>Texture Collection</i> - To understand how the design element, "texture," is used to visually create interest in				

the landscape.				
3. <i>Same Sides</i> - To understand the element of design, "balance," using symmetrical and asymmetrical visuals.				
4. <i>Does it Fit?</i> - To demonstrate understanding of the design element, "proportion."				
1. <i>Tearing Trees</i> - Learning to identify trees based on their classification and shape.				
2. <i>How Tall is that Tree</i> ? - To measure the height of a large tree.				
3. <i>Learning Your ABP's</i> - To understand plant classifications.				
4. <i>Great Green Grass</i> - Selection of grasses should be based upon care and maintenance requirements.				
1. Arbor Day - Understanding that trees are an important natural resource and ways people celebrate their friend, the tree.				
2. Do it Right - To demonstrate through creative dramatics the proper way to plant a tree.				
3. Seed, Sod, & Plugs - To become familiar with different methods used in establishing a lawn.				
1. <i>An Inch of Water</i> - Understanding lawnscape water use and water conservation and money saving through proper use of irrigation systems.				
2. <i>Pruning Places</i> - To learn reasons why plants are pruned and proper pruning techniques.				
3. <i>More Mulch, More Moist</i> - To study the effects of mulch on conserving water.				
4. <i>Queen Bud</i> - To learn the difference between terminal buds and lateral buds and their effects on plants.				
Fruit and Nuts				
Activity	5th Grade Science	5th Grade English LA	5th Grade Math	5th Grade Social Studies
Dr. Fruit - To research origins and relevant information about fruit and nuts				
2. <i>Linnaeus' Name It</i> - To understand the origin of scientific names	S5L1			
3. <i>Botanical Wood Prints</i> - To recreate a historical wood press				
4. <i>A Bushel and a Peck</i> - To gain understanding of non-traditional measurements			М5М3b	
5. <i>Fruit and Vegetable Lab</i> - To learn what a fruit is,				

and to explore the difference between technical definitions and social customs				
Snooty Fruit - To identify various fruits and nuts using sense of smell				
2. <i>Apple-ing Appearance</i> - To create an instrument to evaluate apples on shape and color, and contrast results with evaluation based on taste	S5CSb			
3. <i>Taste Test</i> - To evaluate fruit based on color, texture, taste, and smell				
4. <i>JMG Jam</i> - To use measurements to create a fruit product	S5CS3			
5. <i>Johnny's Appleslop</i> - To gain understanding of the main parts of a plant and role each performs				
1. <i>A Fruit's Life Rhyme</i> - To gain understanding of the life cycle of plants.				
2. <i>Fruit Frenzy</i> - To become familiar with the way fruits and vegetables develop around seeds.				
3. <i>The Zones</i> - To identify the appropriate plants for a particular temperature zone				
4. <i>Just Chill</i> - To simulate a winter environment to provide chilling requirement for an apple seed				
5. Fruit Factory - To use reference material to choose a fruit or nut tree to plant or transplant				
Vegetables and Herbs				
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Activity	5th Grade Science	Grade English LA	5th Grade Math	Grade Social Studies
Activity 1. Home Sweet Home - To understand the criteria for selecting a good garden site and to select an appropriate garden site based on those criteria.	Grade	Grade English	Grade	Social
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2. <i>Paper Towel Gardening</i> - To create seed mats and				
transplant templates which will aid in organizing and				
laying out the garden.				
3. <i>Tender Transplants</i> - To understand the benefits and				
practice techniques of transplanting.				
4. Weed Mats - To create a natural form of weed				
control.				
5. Season Extenders - To create an environment for				
plants.				
1. Garden to the Table - To determine harvest time of				
various garden vegetables.				
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2. <i>Beauty Contest</i> - To rank vegetables based on				
appearance.				
3. Seed Bank - To collect seeds from various fruits and	051.0			
vegetables.	S5L2			
1. <i>The Pyramid</i> - To use the Food Guide Pyramid to				
plan balanced meals.				
2. <i>Food Safety</i> - To understand and practice food				
safety rules.				
3. Label Reader - To learn the importance of eating				
breakfast and how to make healthy food choices by				
using information found on food labels.				
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4. <i>Veggie Taste Test</i> - To evaluate vegetables based	S5CS8			
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Life Skills and Career Exploration		5th		5th
Activity	5th Grade Science	Grade English LA	5th Grade Math	Grade Social Studies
1. <i>Who are You?</i> - To understand the many roles we have in life and begin to understand that each member is a very unique and special person.				
2. "What are you like?" - To help members examine their feelings, self-concepts, and values as they make choices.				
3. <i>Know Your JMG Friends</i> - Youth will recognize positives in their fellow students.				
4. <i>Good JMG'ers Wanted Posters</i> - Confirm each student's uniqueness by having them take their own fingerprints.				
5. <i>How would you feel?</i> - To understand that how you treat other people is very important.				
6. <i>Feeling Bee</i> - Youth will recognize that others have some of the same feelings they do in certain situations.				
1. <i>Where's My Fruit?</i> - To demonstrate the importance of sharing with your friends.				
2. <i>Let's Build It</i> - To explain the importance of cooperation in a group situation.				
3. JMG Cooperation Roster - To explain the importance of cooperation in a group situation.				
4. <i>Musical Chairs with a Twist</i> - To explain the importance of cooperation and sharing in a group.				
5. <i>Over and Under</i> - To illustrate group cooperation in a competitive situation.				
6. <i>Cooperation Countdown</i> - To demonstrate the importance of cooperation in a group.				
Garden Shed - To develop listening/communication skills. Helps with memory tasks.				
2. <i>Who's Who on Our Team?</i> - To identify and practice different modes and methods of communication.				
3. <i>Can You Follow Me?</i> - To identify and practice different methods of communication.				
4. <i>Plant a Seed</i> - To demonstrate the importance of clear verbal communication.				
1. Goal Search - To teach members what a goal is.				
2. <i>Right on Target</i> - To demonstrate the skills needed for goal setting and construct personal goals.				