



Individual Activities  
Indiana Academic  
Standards  
For  
Junior Master Gardener  
Grade 3



| Individual Activity  | English/<br>Language Arts               | Mathematics | Science                                     | Social<br>Studies |
|--|---|-------------|---|-------------------|
| 1. Plant Product Collage – To understand the number of products that are made from plants            | n/a                                     | n/a         | 3.2.4; 3.2.5; 3.4.4                         | n/a               |
| 2. Plant Press Sandwich – To learn how to press and preserve plant material                          | n/a                                     | n/a         | 3.6.5                                       | n/a               |
| 3. Journal – To write about the importance of plants in everyday life                                | 3.5.5; 3.6.5;<br>3.3.6; 3.6.7;<br>3.6.8 | n/a         | 3.4.4; 3.4.6                                | n/a               |
| 1. Leaf Rubbing Rainbow – To learn the difference between monocots and dicots                        | n/a                                     | n/a         | 3.4.1; 3.4.2                                | n/a               |
| 2. Can You Be-Leaf It? – To learn common differences in tree leaf margins                            | n/a                                     | n/a         | 3.4.1; 3.4.2                                | n/a               |
| 3. JMG Web – To learn how to identify tree leaves  | n/a                                     | n/a         | 3.4.1; 3.4.2                                | n/a               |
| 1. Fantastical Plants – To create a plant out of craft supplies including all the parts of the plant | n/a                                     | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 2. JMG Rap Performance – To perform the Plant Parts Rap for a person or group of people              | 3.7.9; 3.7.13                           | n/a         | n/a   | n/a               |
| 3. Uncover and Discover – To learn the two kinds of plant roots                                      | n/a                                     | n/a         | 3.4.1; 3.4.2                                | n/a               |
| 1. Variable Menu – To conduct an experiment determining the effects of soil on plant growth          | n/a                                     | n/a         | 3.1.1; 3.1.2; 3.1.3;<br>3.2.3; 3.6.4        | 3.3.5             |
| 2. 2-liter Terrarium – To make a terrarium and grow plants in the new container                      | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.6;<br>3.6.4               | 3.3.5             |
| 1. Pinwheel Plants – To learn the process of seed germination through pictures                       | n/a                                     | n/a         | 3.2.4; 3.2.5; 3.2.6                         | n/a               |
| 2. Pinto Plant Parts – To create a book of plant growth  | n/a                                     | 3.1.1       | 3.2.5; 3.2.6; 3.6.4                         | n/a               |
| 3. Seed Sock Search – To investigate one way in which seeds travel                                   | n/a                                     | 3.1.1       | 3.1.2; 3.6.4                                | n/a               |
| 4. See the Seed Flee – To discover four ways in how seeds travel                                     | n/a                                     | n/a         | 3.1.2; 3.4.1; 3.4.2                         | n/a               |
| 1. Initial Leaves – To investigate the process of photosynthesis                                     | n/a                                     | n/a         | 3.1.2; 3.6.4; 3.6.5                         | n/a               |
| 2. Plant Maze – To observe the phenomenon of phototropism  | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5; 3.2.6; 3.6.4 | n/a               |
| 3. Upside Down Seed – To experiment how a seed should be planted                                     | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.6;<br>3.6.4               | n/a               |
| 4. Patriotic Plant – To learn how the plant draws water up its stem                                  | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.6.5        | n/a               |
| 5. Smothering Stomata – To discover how plants take in air through their leaves                      | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.6.5        | 3.3.5             |
| 1. Stick and Grow – To learn how to start new plants from cuttings                                   | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.6.4; 3.6.5 | 3.3.5             |
| 2. Seed Sponges – To observe the effects of water on bean seeds                                      | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.6.4; 3.6.5 | n/a               |
| 3. Time to Transplant – To learn the proper time to transplant seedlings                             | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.6.4; 3.6.5        | n/a               |
| 4. Grow Your Own Pineapple – To learn how to propagate a pineapple                                   | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.6.4; 3.6.5        | 3.3.5             |
| 5. JMG Web – To make a plantable seed tape to insure proper seed spacing                             | n/a                                     | 3.5.1       | 3.2.4; 3.2.5                                | n/a               |
| 6. Journal – To write about how to propagate plants  | 3.5.2; 3.6.1                            | n/a         | 3.1.4; 3.2.6                                | n/a               |

| Individual Activity   | English/<br>Language Arts | Mathematics                   | Science   | Social<br>Studies |
|---|---------------------------|-------------------------------|---|-------------------|
| 1. Making a List – To observe and name components of soil   | n/a                       | n/a                           | 3.1.2; 3.1.3;<br>3.2.3; 3.2.4                         | n/a               |
| 2. Soil Rainbow – To collect soils from varying locations and to observe the difference between them        | n/a                       | n/a                           | 3.1.2; 3.6.5  | n/a               |
| 3. Soil Sample – To learn how to collect soil samples and how to have the samples tested                    | n/a                       | n/a                           | 3.1.2; 3.1.3; 3.2.3                                   | n/a               |
| 4. Compaction Measurement – To observe the impact of soil compaction on plant growth                        | 3.4.3; 3.5.2              | n/a                           | 3.1.2; 3.1.3; 3.2.3                                   | n/a               |
| 5. JMG Web – Under Construction   |                           |                               |   |                   |
| 1. Planting Trash – To investigate the amount of time it takes for certain items to decompose in the ground | n/a                       | n/a                           | 3.1.2; 3.1.8;<br>3.2.3; 3.2.4;<br>3.6.4; 3.6.5        | n/a               |
| 2. Pile It Up – To build a compost pile at your home  | n/a                       | n/a                           | 3.2.4; 3.2.5  | 3.3.5             |
| 3. Journal – To write about the importance of compost   | 3.4.3; 3.5.3              | n/a                           | 3.1.8; 3.2.6  | n/a               |
| 4. JMG Web – To learn the process of composting   | n/a                       | n/a                           | 3.1.8; 3.2.4; 3.2.5                                   | 3.3.5             |
| 1. Water Cycle – To learn the process of the water cycle  | 3.1.4; 3.1.6;<br>3.1.7    | n/a                           | 3.4.6   | n/a               |
| 2. Transpiration Trap – To understand the phenomenon of transpiration                                       | n/a                       | n/a                           | 3.1.2; 3.3.5;<br>3.6.4; 3.6.5                         | n/a               |
| 3. How Watery Are You? – To calculate the amount of water in your body                                      | n/a                       | 3.2.2; 3.2.3;<br>3.6.7; 3.6.8 | 3.2.1; 3.4.6  | n/a               |
| 1. Power Shower – To learn how water erodes bare soil   | n/a                       | n/a                           | 3.1.2; 3.1.3;<br>3.6.3; 3.6.5                         | n/a               |
| 2. Water Works – To explore the different methods of irrigation   | n/a                       | n/a                           | 3.1.3; 3.1.3;<br>3.2.3; 3.2.4;<br>3.2.5; 3.6.4; 3.6.5 | n/a               |
| 3. Rain Gauge – To determine how much water plants are by making a rain gauge                               | n/a                       | n/a                           | 3.1.2; 3.1.3;<br>3.2.4; 3.2.5                         | n/a               |

| Individual Activity   | English/<br>Language Arts                      | Mathematics | Science                                     | Social<br>Studies |
|---|--|-------------|---|-------------------|
| 1. Your Own World – To create a miniature environment for plants and insects            | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5               | 3.3.5             |
| 2. Wild Weeds – To learn the adaptations of weeds                                       | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.4.1; 3.4.2 | n/a               |
| 3. A Bee's Eye View – To learn how bees see their environment                           | n/a  | n/a         | 3.2.6                                       | n/a               |
| 4. Water Balance – To observe the insect, animal, and plant life around water           | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.6; 3.6.4        | 3.3.5             |
| 5. Become a Spider – To learn how to make a spider web                                  | n/a  | n/a         | 3.1.2; 3.2.4; 3.2.5                         | n/a               |
| 6. JMG Web – To investigate the ways bees see and to write a story on the life of a bee | 3.5.2; 3.6.1;<br>3.6.2; 3.6.3;<br>3.6.4; 3.6.5 | n/a         | 3.1.2; 3.1.4; 3.2.4                         | n/a               |
| 1. Home Sweet Home – To learn how to make a home for living creatures                   | 3.4.4  | n/a         | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5               | 3.3.5             |
| 2. Toad Abode – To create a home for frogs and toads                                    | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5               | 3.3.5             |
| 3. Feathered Friend Feeder – To create a feeder for birds to enjoy                      | n/a  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 4. Boarding House – To learn how to attract insects to your yard                        | n/a  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 5. Journal – To write a story from a bird's point of view                               | 3.4.3; 3.5.1                                   | n/a         | n/a   | n/a               |
| 6. JMG Web – To learn about the habitat of a snail                                      | n/a  | n/a         | 3.1.2; 3.2.4                                | 3.3.5             |
| 1. More Isn't Better – To learn how to read a pesticide or fertilizer label             | 3.2.7  | n/a         | 3.1.3; 3.1.4; 3.2.3                         | n/a               |
| 2. Organic JMG – To learn organic methods of gardening                                  | 3.4.4  | n/a         | 3.1.2                                       | 3.3.5             |
| 3. Water, Water, Everywhere – To learn how to conserve water                            | n/a  | n/a         | 3.1.2; 3.4.6                                | n/a               |
| 4. Meter Reader – To determine how much water is used by reading a water meter          | n/a  | 3.2.1       | 3.1.2; 3.1.3; 3.4.6;<br>3.6.4               | n/a               |
| 5. JMG Web – To be able to identify practices that harm the environment                 | n/a  | n/a         | 3.1.2; 3.1.3; 3.1.8;<br>3.2.4               | n/a               |
| 1. Grow Cards – To create a card out of recycled paper                                  | n/a  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 2. Use it...Don't lose it! – To recycle yard waste and use it as mulch                  | n/a  | n/a         | 3.1.8                                       | 3.3.5             |
| 3. Critter Condo – To use earthworms to recycle kitchen scraps                          | n/a  | n/a         | 3.1.2; 3.2.4; 3.2.5                         | 3.3.5             |
| 4. Composting Homework – To compost old paper   | n/a  | n/a         | 3.1.2; 3.1.8                                | n/a               |
| 5. Recycle Inventory – To inventory what your family is recycling                       | n/a  | n/a         | 3.1.2; 3.1.8                                | n/a               |
| 6. JMG Web – To evaluate the impact of paper bags and plastic bags on the environment   | n/a  | n/a         | 3.1.2; 3.1.3; 3.1.8;<br>3.2.4               | n/a               |
| 1. Seed Jewelry – To make jewelry out of seeds you find                                 | 3.2.7  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 2. Nature Garland – To make garland out of natural materials                            | 3.2.7  | n/a         | 3.1.2; 3.2.4; 3.2.5                         | n/a               |
| 3. Mystery Boxes – To create a covered box to display mystery objects                   | 3.2.7  | n/a         | 3.1.2; 3.2.4; 3.2.5                         | n/a               |
| 4. Seeds Magnet - To make a refrigerator magnet out of collected seeds                  | 3.2.7  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 5. Recycle Sculpture – To make art out of recyclable materials                          | 3.2.7  | n/a         | 3.1.2; 3.1.8; 3.2.4;<br>3.2.5               | n/a               |
| 6. Garden Folks – To create a personalized garden person                                | 3.2.7  | n/a         | 3.1.8; 3.2.4; 3.2.5                         | n/a               |
| 7. JMG Web – To learn how to preserve a spider web                                      | 3.2.7  | n/a         | 3.2.4; 3.2.5                                | n/a               |

| Individual Activity   | English/<br>Language Arts | Mathematics   | Science                       | Social<br>Studies |
|---|---------------------------|---------------|-------------------------------|-------------------|
| 1. Inspector Insect-a – To observe and collect insects  | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.5           | 3.3.5             |
| 2. Insect Plaster Casts – To learn how to observe insects using plaster casts                     | n/a                       | n/a           | 3.2.4; 3.2.5                  | n/a               |
| 3. Symmetry Snacks – To understand symmetry through making snacks                                 | 3.1.6; 3.1.7              | n/a           | 3.2.5                         | n/a               |
| 4. Camouflage Critters – To learn about camouflaged insects and to make one out of egg cartons    | 3.1.6; 3.1.7              | n/a           | 3.2.4; 3.2.5                  | 3.3.5             |
| 5. JMG Web – To measure the temperature outside using cricket chirps                              | n/a                       | 3.1.1; 3.2.1  | 3.1.2; 3.1.3; 3.2.1;<br>3.2.4 | n/a               |
| 1. To be or not to be...an insect! – To differentiate insects from other creatures                | n/a                       | n/a           | 3.2.7; 3.4.1; 3.4.2           | n/a               |
| 2. My Family Tree – To understand how insects are related by exploring how people are related     | n/a                       | n/a           | 3.4.1; 3.4.2; 3.4.3           | n/a               |
| 3. Change as You Grow – To understand the process of metamorphosis                                | 3.1.6; 3.1.7              | n/a           | 3.1.2; 3.1.4                  | n/a               |
| 4. Caterpillar Nursery – To attract and observe butterflies in your yard or school's garden       | 3.4.4                     | n/a           | 3.1.2; 3.1.3; 3.2.6           | 3.3.5             |
| 5. JMG Web – To learn about the habitats and classification of grasshoppers and dragonflies       | n/a                       | n/a           | 3.1.2; 3.2.4; 3.4.1;<br>3.4.2 | 3.3.5             |
| 1. The Pitfalls of Being an Insect – To catch insects using a pitfall trap                        | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5 | n/a               |
| 2. Let's Sweep Up! – To make an insect net out of a pillowcase                                    | 3.2.7                     | n/a           | 3.1.2; 3.2.4; 3.2.5           | n/a               |
| 3. Scavenger Hunt – To observe and identify insects that have been caught                         | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.3           | n/a               |
| 4. Insect Night Light – To observe and collect night insects using an insect night light          | n/a                       | n/a           | 3.1.2; 3.1.3; 3.6.4           | 3.3.5             |
| 5. Insect Collection – To learn how to make an insect collection                                  | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.4;<br>3.2.5 | n/a               |
| 6. JMG Web – To learn what insects may be found in our food                                       | n/a                       | 3.2.2; 3.5.12 | 3.1.2; 3.2.4                  | n/a               |
| 1. Sign Language – To observe different types of insect damage on plant leaves                    | 3.1.6; 3.1.7              | n/a           | 3.1.2; 3.1.3                  | n/a               |
| 2. Good Gall-y! – To observe galls on plants  | n/a                       | n/a           | 3.1.2                         | 3.3.5             |
| 3. Favorite Colors – To learn which colors attract different insects and animals                  | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.3;<br>3.2.5 | n/a               |
| 4. JMG Web – Under Construction   |                           |               |                               |                   |
| 1. Attractor Factors – To learn how to attract beneficial insects                                 | n/a                       | n/a           | 3.1.2; 3.1.3                  | n/a               |
| 2. Who Goes There? – To learn the process of Integrated Pest Management (IPM)                     | n/a                       | n/a           | 3.1.2; 3.1.3; 3.2.6           | n/a               |
| 3. Beneficials Abound – To release ladybugs into your garden                                      | n/a                       | n/a           | 3.1.2                         | 3.3.5             |
| 4. Picture This – To draw a picture depicting both beneficial and pest insects in your garden     | n/a                       | n/a           | 3.2.5; 3.2.6                  | n/a               |
| 1. Fun with Fungi – To explore mushrooms in the wild  | 3.1.6; 3.1.7              | n/a           | 3.1.2                         | 3.3.5             |
| 2. Fungus in Your Food – To learn different foods that are made with fungi                        | n/a                       | n/a           | 3.4.4                         | n/a               |
| 3. Mushroom Prints – To observe spore patterns in mushrooms                                       | n/a                       | n/a           | 3.1.2; 3.6.4; 3.6.5           | n/a               |
| 4. Prescription for Prevention – To learn the disease triangle and steps taken to prevent disease | n/a                       | n/a           | 3.1.2                         | n/a               |

| 5. There's a Fungus Among Us! – To observe fungal diseases on plants  | n/a  | n/a         | 3.1.2; 3.1.4                                | n/a               |
|---|--|-------------|---|-------------------|
| 6. JMG Web – Under Construction   |  |             |   |                   |
| Individual Activity   | English/<br>Language Arts                      | Mathematics | Science                                     | Social<br>Studies |
| 1. Interview with a Client – To learn a practice the job of a landscape designer                                | 3.1.6; 3.1.7;<br>3.5.5                         | n/a         | 3.1.2                                       | n/a               |
| 2. Check Out the Site – To learn how to make a survey of the landscape site                                     | 3.1.6; 3.1.7;<br>3.5.5                         | n/a         | 3.1.2                                       | n/a               |
| 3. Sun Watch – To observe the movement of the sun throughout the landscape                                      | n/a  | n/a         | 3.1.2                                       | n/a               |
| 4. Journal – To write a descriptive story about a favorite outside place  | 3.5.2; 3.6.1;<br>3.6.2; 3.6.3;<br>3.6.4; 3.6.5 | n/a         | n/a   | n/a               |
| 5. JMG Web – Write a poem about the beautiful things in nature  | 3.5.2; 3.6.1;<br>3.6.2; 3.6.3;<br>3.6.4; 3.6.5 | n/a         | 3.1.2; 3.2.4                                | n/a               |
| 1. Potato Vase – To learn the process of landscape design through a flower arrangement                          | n/a  | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 2. Texture Rubs – To explore the various textures of plant life   | 3.1.6; 3.1.7                                   | n/a         | 3.1.2                                       | n/a               |
| 3. Color Wheel Complement – To learn complementary colors on the color wheel                                    | 3.1.6; 3.1.7                                   | n/a         | n/a   | n/a               |
| 4. Monochrome Mixture – To learn how to make monochromatic color patterns                                       | 3.1.6; 3.1.7                                   | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 5. Color Moods – To learn the difference between warm and cool colors   | n/a  | n/a         | 3.1.2; 3.1.3; 3.1.4                         | n/a               |
| 6. JMG Web – Under Construction   |  |             |   |                   |
| 1. Is It Once or Always? – To learn the difference between annual and perennial plants                          | 3.1.6; 3.1.7                                   | n/a         | 3.1.2; 3.1.3                                | n/a               |
| 2. Leaf Book – To collect and dry leaves to share with others and for further study                             | n/a  | n/a         | 3.1.2; 3.1.3; 3.1.4;<br>3.2.3; 3.4.1        | n/a               |
| 3. Superstars – To research the most successful plants for your region  | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.3                         | n/a               |
| 4. My Tree Book – To document a tree in the four seasons of the year  | n/a  | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.2.4; 3.2.5; 3.6.4 | n/a               |
| 5. Pine I.D. – To learn how to identify different kinds of conifers   | 3.1.6; 3.1.7                                   | n/a         | 3.1.2; 3.1.3; 3.4.1;<br>3.4.2               | n/a               |
| 6. JMG Web – To determine how to choose a plant for a specific area   | n/a  | n/a         | 3.1.2; 3.2.4                                | n/a               |
| 1. Make Your Bed – To construct a flower or shrub bed of your own   | n/a  | n/a         | 3.2.5                                       | n/a               |
| 2. Room to Grow – To learn how plants should be spaced in a landscape   | n/a  | 3.1.1       | 3.1.2; 3.1.3                                | n/a               |
| 3. JMG Web – Under Construction   |  |             |   |                   |
| 1. Dead Heads – To clip flowers in such a way that they will produce even more flowers                          | 3.1.6; 3.1.7                                   | n/a         | 3.2.4                                       | n/a               |
| 2. An Inch of Water – To measure the amount of water a sprinkler will emit                                      | n/a  | 3.5.1       | 3.1.2; 3.1.3; 3.2.3                         | n/a               |
| 3. Clean Cut – To learn how to properly prune a tree  | 3.1.6; 3.1.7                                   | n/a         | 3.2.4; 3.2.5                                | n/a               |
| 4. Keep It Clean – To understand the importance of clean tools  | 3.2.7  | n/a         | 3.4.8; 3.4.9                                | n/a               |
| 5. Hey Bud! Let's Get Growing! – To determine the difference and significance between terminal and lateral buds | 3.1.6; 3.1.7                                   | n/a         | 3.1.2; 3.2.4; 3.2.5                         | n/a               |
| 6. Just Weed It – To assist a neighbor in weeding his or her garden   | n/a  | n/a         | 3.2.4                                       | n/a               |

|   |     |     |       |     |
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| 7. Hole in One – To learn the identification, care, and maintenance of golf courses grasses | n/a | n/a | 3.1.2 | n/a |
|---|-----|-----|-------|-----|

| Individual Activity  | English/<br>Language Arts               | Mathematics | Science                              | Social<br>Studies |
|--|---|-------------|--------------------------------------|-------------------|
| 1. Mr. Appleseed – To learn the history of Johnny Appleseed and how to sprout apple seeds                                      | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.1.4;<br>3.2.3; 3.6.4 | n/a               |
| 2. Prized Peanuts – To learn of a famous scientist and to demonstrate one of his virtues                                       | n/a                                     | n/a         | n/a                                  | n/a               |
| 3. Pomanders – To learn how to make a pomander   | 3.2.7                                   | n/a         | 3.2.4; 3.2.5                         | n/a               |
| 4. Global Fruit – To discover who grows fruits that you buy in the grocery store and how the fruit is transported to the store | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.4.7        | n/a               |
| 5. JMG Web – To keep track of the number of fruits and vegetables eaten in a day   | n/a                                     | 3.1.1       | 3.1.2; 3.1.3; 3.2.3;<br>3.2.4; 3.4.7 | n/a               |
| 1. Jammin' Juice – To make a fruit drink out of fresh fruits   | 3.2.7                                   | n/a         | 3.4.7                                | n/a               |
| 2. Grape Bake – To make healthy snacks out of grapes   | 3.2.7                                   | n/a         | 3.6.5; 3.4.7                         | n/a               |
| 3. A Better Butter – To learn about the history of peanut butter and to make your own peanut butter                            | 3.2.7                                   | n/a         | 3.4.7                                | n/a               |
| 4. Journal – To taste two new kinds of fruit and write your opinion on the new fruit   | 3.5.5; 3.6.1;<br>3.6.2; 3.6.4;<br>3.6.5 | n/a         | n/a                                  | n/a               |
| 5. JMG Web – To follow a recipe for a fruit snack  | 3.2.7                                   | n/a         | 3.4.7                                | n/a               |
| 1. Making Peanuts – To grow a peanut plant from seed   | 3.2.7                                   | n/a         | 3.4.7; 3.6.4; 3.6.5                  | n/a               |
| 2. Ripening Wrap – To understand what assists fruit ripening   | 3.1.6; 3.1.7                            | n/a         | 3.1.2; 3.1.3; 3.6.4;<br>3.6.5        | n/a               |
| 3. Designer Apples – To observe the process of apples turning colors   | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.6.4;<br>3.6.5        | n/a               |
| 4. Avocado Seed Soak – To learn how to sprout avocado seeds  | n/a                                     | n/a         | 3.1.2; 3.1.3; 3.6.4;<br>3.6.5        | n/a               |
| 5. Attractive Snacks – To understand what berry colors attract animals   | n/a                                     | n/a         | 3.2.5                                | n/a               |
| 6. Journal – To write a descriptive narrative on a newly discovered tree   | 3.5.2; 3.6.1;<br>3.6.3; 3.6.4;<br>3.6.5 | n/a         | n/a                                  | n/a               |
| 7. JMG Web – To investigate how certain fruits grow  | n/a                                     | n/a         | 3.1.2                                | n/a               |

| Individual Activity  | English/<br>Language Arts | Mathematics | Science                       | Social<br>Studies |
|--|---------------------------|-------------|-------------------------------|-------------------|
| 1. Garden Design – To create a square-foot garden  | n/a                       | 3.5.4       | 3.2.4                         | n/a               |
| 2. Journal – To explore the number of vegetables and herbs in the grocery store  | 3.6.1; 3.6.8              | n/a         | n/a                           | n/a               |
| 3. JMG Web – Under Construction  |                           |             |                               |                   |
| 1. Creative Crazy Containers – To experiment with unique containers for plants   | n/a                       | n/a         | 3.2.5; 3.6.4                  | n/a               |
| 2. Zip and Grow – To grow plants in plastic bags of soil   | n/a                       | n/a         | 3.2.5; 3.6.4                  | n/a               |
| 3. Radish Carpet – To grow radish plants in a tray of soil   | n/a                       | n/a         | 3.2.5; 3.4.7; 3.6.4           | n/a               |
| 4. JMG Web – To learn how to make a teepee   | 3.2.7                     | n/a         | 3.1.2; 3.2.4; 3.2.5           | n/a               |
| 1. Seed Saving – To learn how to collect plant seeds   | n/a                       | n/a         | 3.1.2                         | n/a               |
| 2. Watermelon Thump – To learn how to choose fresh fruit at a grocery store or market                                    | n/a                       | n/a         | 3.1.2; 3.6.5                  | n/a               |
| 3. JMG Web – To learn the process of harvesting lettuce  | 3.2.5                     | n/a         | 3.1.2; 3.2.4                  | n/a               |
| 1. Food Journal – To keep track of the food that you eat in a day  | n/a                       | n/a         | 3.1.2; 3.1.3; 3.2.3;<br>3.4.7 | n/a               |
| 2. Junk Food Blues Performance – To perform the “Junk Food Blues” to a family member, friend, JMG group, or school class | n/a                       | n/a         | 3.1.4                         | n/a               |
| 3. What Are You Eating? – To learn how to read food nutrition labels   | n/a                       | n/a         | 3.1.2; 3.4.7                  | n/a               |
| 4. Making the Menu – To prepare a meal using foods from all food groups  | n/a                       | n/a         | 3.4.7                         | n/a               |
| 1. Vegetable Prints – To create artwork using vegetables   | n/a                       | n/a         | 3.2.5                         | n/a               |
| 2. Interview with a Grocer – To interview a grocer about the vegetables in the grocery store                             | 3.5.3 ; 3.5.5 ;<br>3.7.1  | n/a         | 3.1.2 ; 3.1.3 ; 3.2.3         | n/a               |
| 3. Veggie Critters – To create sculptures out of vegetables  | n/a                       | n/a         | 3.2.5                         | n/a               |
| 4. Plant Detective – To investigate items that have plant products in them   | n/a                       | n/a         | 3.1.2; 3.1.3; 3.2.3           | n/a               |
| 5. Peanut Butter Celery – To make a nutritious vegetable snack   | 3.2.7                     | n/a         | n/a                           | n/a               |
| 1. Ice Cube Seasonings – To preserve herbs for later use   | 3.2.7                     | n/a         | n/a                           | n/a               |
| 2. Rosemary BBQ Brush – To use a plant to brush on barbeque sauce when grilling  | 3.2.7                     | n/a         | n/a                           | n/a               |
| 3. Herbal Butter – To make butter from fresh herbs from the garden   | 3.2.7                     | n/a         | n/a                           | n/a               |
| 4. Mint Tea – To make tea out of mint leaves, tea bags, and water  | 3.2.7                     | n/a         | n/a                           | n/a               |

| Individual Activity  | English/<br>Language Arts                      | Mathematics   | Science             | Social<br>Studies |
|--|--|---------------|---------------------|-------------------|
| 1. My Autobiography – To write a story that describes you  | 3.5.5  | n/a           | n/a                 | n/a               |
| 2. Advertising Myself – To research the different types of advertisements                              | 3.4.4; 3.7.14                                  | n/a           | 3.2.4; 3.2.5        | n/a               |
| 1. Cooperation Collage – To collect old magazines, newspapers, and pictures showing people cooperating | 3.4.4  | n/a           | 3.1.5; 3.2.4; 3.2.5 | n/a               |
| 2. Let's Find Out – To interview a coach or instructor about cooperation                               | 3.5.3; 3.7.1                                   | n/a           | n/a                 | n/a               |
| 1. Cheer Cards – To send a card to someone who has helped you with your JMG projects                   | 3.5.3; 3.6.1;<br>3.6.3; 3.6.4;<br>3.6.5; 3.6.8 | n/a           | n/a                 | n/a               |
| 2. Let Me Hear Your Body – To learn what people are thinking and feeling by their body language        | n/a  | n/a           | n/a                 | n/a               |
| 3. What Are Your Plans? – To create short-term and long-term goals for yourself                        | 3.5.5  | n/a           | n/a                 | n/a               |
| 4. Great Days – To write down three good things that happened in a day                                 | 3.5.5  | n/a           | n/a                 | n/a               |
| 5. 4-H Record Book – To create a book recording all the fun things in your JMG project                 | n/a  | n/a           | 3.2.4; 3.2.5        | n/a               |
| 1. Plan and Eat – To plan a meal on a limited budget   | 3.5.5  | 3.1.1; 3.5.11 | n/a                 | n/a               |
| 2. Time Marches On – To keep track of your daily activities  | n/a  | n/a           | 3.1.2               | n/a               |
| 1. Who's Responsible – To assign tasks to different members of the family                              | n/a  | n/a           | n/a                 | n/a               |
| 2. Proceed With Caution – To inventory the potential safety hazards in your home and yard              | 3.5.5  | n/a           | 3.1.2; 3.1.3        | n/a               |
| 1. How I Work Best – To determine which careers fit the way you work best                              | 3.4.4  | n/a           | 3.1.2; 3.1.3        | n/a               |
| 2. Way Back When... – To interview a retired person about the job he or she had                        | 3.5.3; 3.7.2                                   | n/a           | n/a                 | n/a               |
| 3. Career Book – To create a book out of careers you research  | 3.5.3  | n/a           | 3.2.4; 3.2.5; 3.2.7 | n/a               |
| 4. JMG Web – Under Construction  |  |               |                     |                   |