

Junior Master Gardener *Grades 3-5*

Chapter 1: Plant Growth and Development

Activity 1: Hamburger Plant

Science

Energy

Standard 1 (SC.B.1.2): The student recognizes that energy may be changed in form with varying efficiency.

Benchmark 1: knows how to trace the flow of energy in a system.

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Activity 10: Seed Science

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 11: Flower Dissection

Junior Master Gardener

Grades 3-5

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Benchmark 4: knows that similar cells form different kinds of structures.

Activity 12: P.L.A.N.T Needs

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 13: What's Not the Same?

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Activity 14: Plant People

Science

How Living Things Interact with Their Environment

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 15: Picture Yourself a Plant

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 16: Coconut Float

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Activity 17: Plant Performance

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Activity 19: Power Seeds

Science

The Nature of Science

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 2: Benefits Mobile

Science

Energy

Standard 1 (SC.B.1.2): The student recognizes that energy may be changed in form with varying efficiency.

Benchmark 1: knows how to trace the flow of energy in a system.

Benchmark 6: knows ways that heat can move from one object to another.

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Activity 20: Oxygen Factory

Science

How Living Things Interact with Their Environment

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 21: Gas Gobblers

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Activity 22: Spinning Seeds

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Activity 23: Gallon Greenhouse

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 23: Paper Pot

Junior Master Gardener

Grades 3-5

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 1: knows that all living things must compete for Earth's limited resources; organisms best adapted to compete for the available resources will be successful and pass their adaptations (traits) to their offspring.

Standard 2 (SC.D.2.2): The student understands the need for protection of the natural systems on Earth.

Benchmark 1: knows that using, recycling, and reducing the use of natural resources improve and protect the quality of life.

Activity 24: Propagation Demonstration

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 3: Know & Show Sombrero

Science

Energy

Standard 1 (SC.B.1.2): The student recognizes that energy may be changed in form with varying efficiency.

Benchmark 1: knows how to trace the flow of energy in a system.

Benchmark 6: knows ways that heat can move from one object to another.

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Junior Master Gardener

Grades 3-5

Activity 4: The Choo-Choo

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Activity 5: The Medicine Plant

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Activity 6: Leaf-and-Seed Sort Information Chart

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 2: knows how all animals depend on plants.

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 7: Plant Parts Rap

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Junior Master Gardener **Grades 3-5**

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 4: knows that similar cells form different kinds of structures.

Activity 8: Touch and Tell

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Benchmark 4: knows that similar cells form different kinds of structures.

Activity 9: Plant Parts We Eat

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Chapter 2: Soils and Water

Activity 1: Touchy Feely

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 1: knows that larger rocks can be broken down into smaller rocks, which in turn can be broken down to combine with organic material to form soil.

Activity 10: Compost Sandwich Composition

Language Arts

Writing

Junior Master Gardener *Grades 3-5*

Standard 2 (LA.B.2.2): The student writes to communicate ideas and information effectively.

Benchmark 1: writes notes, comments, and observations that reflect comprehension of content and experiences from a variety of media.

Benchmark 2: organizes information using alphabetical and numerical systems.

Benchmark 3: writes for a variety of occasions, audiences, and purposes.

Benchmark 4: uses electronic technology, including word processing software and electronic encyclopedias, to create, revise, retrieve, and verify information.

Benchmark 5: creates narratives in which ideas, details, and events are in a logical order and are relevant to the story line.

Benchmark 6: creates expository responses in which ideas and details follow an organizational pattern and are relevant to the purpose.

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Benchmark 6: knows that organisms are growing, dying, and decaying and that new organisms are being produced from the materials of dead organisms.

Activity 11: Earth Apple

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 2: knows that 75 percent of the surface of the Earth is covered by water.

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 3: knows that the water cycle is influenced by temperature, pressure, and the topography of the land.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 12: Cloud Maker

Science

The Nature of Matter

Standard 1 (SC.A.1.2): The student understands that all matter has observable, measurable properties.

Benchmark 2: knows that common materials (e.g., water) can be changed from one state to another by heating and cooling.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 13: The Cycle Song

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 3: knows that the water cycle is influenced by temperature, pressure, and the topography of the land.

Activity 15: Out of the Spout

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 3: knows that the water cycle is influenced by temperature, pressure, and the topography of the land.

Junior Master Gardener

Grades 3-5

Activity 16: Where Did It Go?

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 3: knows that the water cycle is influenced by temperature, pressure, and the topography of the land.

Activity 17: Water Flows, Soil Goes

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 4: knows that the surface of the earth is in a continuous state of change as waves, weather, and shifts of the land constantly change and produce many new features.

Activity 2: Mud Pies

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 1: knows that larger rocks can be broken down into smaller rocks, which in turn can be broken down to combine with organic material to form soil.

Activity 3: Shake, Rattle and Roll

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 1: knows that larger rocks can be broken down into smaller rocks, which in turn can be broken down to combine with organic material to form soil.

Activity 4: Candy Aggregate

Junior Master Gardener

Grades 3-5

Science

Processes that shape the Earth

Standard 1 (SC.D.1.2): The student recognizes that processes in the lithosphere, atmosphere, hydrosphere, and biosphere interact to shape the Earth.

Benchmark 1: knows that larger rocks can be broken down into smaller rocks, which in turn can be broken down to combine with organic material to form soil.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 5: Nutrient Variable

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Activity 7: Bumps Below

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Junior Master Gardener **Grades 3-5**

Activity 8: Building Bins and Compost Sandwiches

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Benchmark 6: knows that organisms are growing, dying, and decaying and that new organisms are being produced from the materials of dead organisms.

Activity 9: Composting Critter Page

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Benchmark 6: knows that organisms are growing, dying, and decaying and that new organisms are being produced from the materials of dead organisms.

Chapter 3: Ecology and Environmental Horticulture

Activity 1: Nature Class Web

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Benchmark 6: knows that organisms are growing, dying, and decaying and that new organisms are being produced from the materials of dead organisms.

Activity 10: Visit with a Vet

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Activity 11: On the Move

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 3: understands that changes in the habitat of an organism may be beneficial or harmful.

Activity 12: Both Sides of the Fence

Language Arts

Listening, Viewing, and Speaking

Standard 1 (LA.C.1.2): The student uses listening strategies effectively.

Benchmark 1: listens and responds to a variety of oral presentations, such as stories, poems, skits, songs, personal accounts, and informational speeches.

Activity 13: Weighing Wastes

Mathematics

Measurement

Junior Master Gardener *Grades 3-5*

Standard 4 (MA.B.4.2): The student selects and uses appropriate units and instruments for measurements to achieve the degree of precision and accuracy required in real-world situations.

Benchmark 2: selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.

Activity 15: Xeriscape

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 1: knows that all living things must compete for Earth's limited resources; organisms best adapted to compete for the available resources will be successful and pass their adaptations (traits) to their offspring.

Activity 16: Vermi-composting

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Activity 17: Supermowing Machine

Science

The Nature of Science

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 4: knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.

Activity 18: Grow Cards

Science

Processes that shape the Earth

Junior Master Gardener *Grades 3-5*

Standard 2 (SC.D.2.2): The student understands the need for protection of the natural systems on Earth.

Benchmark 1: knows that using, recycling, and reducing the use of natural resources improve and protect the quality of life.

Activity 19: Know & Show Recycling Sombrero

Science

Processes that shape the Earth

Standard 2 (SC.D.2.2): The student understands the need for protection of the natural systems on Earth.

Benchmark 1: knows that using, recycling, and reducing the use of natural resources improve and protect the quality of life.

Activity 2: The Food Chain Gaing

Science

Energy

Standard 1 (SC.B.1.2): The student recognizes that energy may be changed in form with varying efficiency.

Benchmark 1: knows how to trace the flow of energy in a system.

Standard 2 (SC.B.2.2): The student understands the interaction of matter and energy.

Benchmark 1: knows that some source of energy is needed for organisms to stay alive and grow.

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 3: Polluting Your Planet

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 3: understands that changes in the habitat of an organism may be beneficial or harmful.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Junior Master Gardener

Grades 3-5

Activity 4: Exploding Cactus

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Standard 2 (SC.F.2.2): The student understands the process and importance of genetic diversity.

Benchmark 1: knows that many characteristics of an organism are inherited from the parents of the organism, but that other characteristics are learned from an individual's interactions with the environment.

Activity 5: Garden Weather Station

Mathematics

Measurement

Standard 2 (MA.B.2.2): The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).

Benchmark 2: selects and uses appropriate standard and nonstandard units of measurement, according to type and size.

Standard 4 (MA.B.4.2): The student selects and uses appropriate units and instruments for measurements to achieve the degree of precision and accuracy required in real-world situations.

Benchmark 2: selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.

Activity 6: The Tree Community

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 7: Gourd Bird House

Science

How Living Things Interact with Their Environment

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 3: understands that changes in the habitat of an organism may be beneficial or harmful.

Activity 8: Our Pocket Park

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 3: understands that changes in the habitat of an organism may be beneficial or harmful.

Chapter 4: Insects and Diseases

Activity 1: Insect Predictions and Survey

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Activity 12: Suck-A-Bug

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 1: understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.

Junior Master Gardener

Grades 3-5

Activity 13: It's a Small World

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 1: understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.

Activity 14: Insect Nets

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 1: understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.

Activity 15: By Land or Sea

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Activity 16: Ant Lion Farm

Junior Master Gardener

Grades 3-5

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Benchmark 5: knows that animals eat plants or other animals to acquire the energy they need for survival.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Activity 17: Chew on This!

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Activity 18: School Yard Survey

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 19: Pollinator Puppet Show

Junior Master Gardener

Grades 3-5

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 2: Insect Symmetry

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Activity 20: The Bartering System

Science

Energy

Standard 1 (SC.B.1.2): The student recognizes that energy may be changed in form with varying efficiency.

Benchmark 1: knows how to trace the flow of energy in a system.

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 21: The Lone Bee

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 3: understands that changes in the habitat of an organism may be beneficial or harmful.

Activity 22: Designer Plants and Insects

Junior Master Gardener

Grades 3-5

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 23: Garden Friends and Foes

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 24: Don't Bug Me!

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 26: Critter Creations

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 1: knows ways that plants, animals, and protists interact.

Activity 27: Exploratory Fungi

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 28: Yeast Bread

Junior Master Gardener

Grades 3-5

Health Education

Responsible Health Behavior

Standard 1 (HE.B.1.2): The student knows health-enhancing behaviors and how to reduce health risks.

Benchmark 2: compares behaviors that are safe to those that are risky or harmful.

Activity 29: Lacy Leaves

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 4: knows that some organisms decompose dead plants and animals into simple minerals and nutrients for use by living things and thereby recycle matter.

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 3: The Great Cover-Up!

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Standard 2 (SC.F.2.2): The student understands the process and importance of genetic diversity.

Benchmark 1: knows that many characteristics of an organism are inherited from the parents of the organism, but that other characteristics are learned from an individual's interactions with the environment.

Activity 30: Likin' those Lichens

Science

The Nature of Science

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 31: Prescription for Prevention

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Activity 32: There's a Fungus Among Us!

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 4: Designer Bugs

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 2: knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Junior Master Gardener *Grades 3-5*

Standard 2 (SC.F.2.2): The student understands the process and importance of genetic diversity.

Benchmark 1: knows that many characteristics of an organism are inherited from the parents of the organism, but that other characteristics are learned from an individual's interactions with the environment.

Activity 5: Insect Riddles

Language Arts

Writing

Standard 2 (LA.B.2.2): The student writes to communicate ideas and information effectively.

Benchmark 3: writes for a variety of occasions, audiences, and purposes.

Activity 6: Secret Smells Game

Science

Processes of Life

Standard 2 (SC.F.2.2): The student understands the process and importance of genetic diversity.

Benchmark 1: knows that many characteristics of an organism are inherited from the parents of the organism, but that other characteristics are learned from an individual's interactions with the environment.

Activity 7: All in the Family: Insect Flash Cards

Science

The Nature of Science

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 8: Ordering Insects

Science

The Nature of Science

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 9: Metamorphosis Bracelets and Belts

Science

Processes of Life

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 4: knows that similar cells form different kinds of structures.

Chapter 5: Landscape Horticulture

Activity 1: Rooms

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 10: How Tall is that Tree?

Mathematics

Algebraic Thinking

Standard 1 (MA.D.1.2): The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.

Benchmark 2: generalizes a pattern, relation, or function to explain how a change in one quantity results in a change in another.

Activity 11: Learning Your ABPs

Science

The Nature of Science

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 12: Great Green Grass

Science

The Nature of Science

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 4: knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.

Activity 16: An Inch of Water

Junior Master Gardener

Grades 3-5

Science

Processes that shape the Earth

Standard 2 (SC.D.2.2): The student understands the need for protection of the natural systems on Earth.

Benchmark 1: knows that using, recycling, and reducing the use of natural resources improve and protect the quality of life.

Activity 18: More Mulch, More Moist

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 19: Queen Bud

Science

Processes of Life

Standard 1 (SC.F.1.2): The student describes patterns of structure and function in living things.

Benchmark 3: knows that living things are different but share similar structures.

Benchmark 4: knows that similar cells form different kinds of structures.

Activity 2: People and Places

Junior Master Gardener

Grades 3-5

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Social Studies

People, Places, and Environments

Standard 2 (SS.B.2.2): The student understands the interactions of people and the physical environment.

Benchmark 2: understands how the physical environment supports and constrains human activities.

Activity 3: Money Trees

Science

The Nature of Science

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 4: knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.

Activity 4: Site Map

Social Studies

People, Places, and Environments

Standard 1 (SS.B.1.2): The student understands the world in spatial terms.

Benchmark 1: uses maps, globes, charts, graphs, and other geographic tools including map keys and symbols to gather and interpret data and to draw conclusions about physical patterns.

Activity 9: Tearing Trees

Science

The Nature of Science

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Junior Master Gardener

Grades 3-5

Chapter 6: Fruits and Nuts

Activity 1: Dr. Fruit

Language Arts

Reading

Standard 1 (LA.A.1.2): The student uses the reading process effectively.

Benchmark 1: uses a table of contents, index, headings, captions, illustrations, and major words to anticipate or predict content and purpose of a reading selection.

Benchmark 2: selects from a variety of simple strategies, including the use of phonics, word structure, context clues, self-questioning, confirming simple predictions, retelling, and using visual cues, to identify words and construct meaning from vari.....

Benchmark 3: uses simple strategies to determine meaning and increase vocabulary for reading, including the use of prefixes, suffixes, root words, multiple meanings, antonyms, synonyms, and word relationships

Benchmark 4: clarifies understanding by rereading, self-correction, summarizing, checking other sources, and class or group discussion.

Activity 12: Fruit Frenzy

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 13: The Zones

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Activity 14: Just Chill

Junior Master Gardener

Grades 3-5

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Activity 15: Fruit Factory

Social Studies

People, Places, and Environments

Standard 1 (SS.B.1.2): The student understands the world in spatial terms.

Benchmark 1: uses maps, globes, charts, graphs, and other geographic tools including map keys and symbols to gather and interpret data and to draw conclusions about physical patterns.

Activity 2: Linnaeus' World Wide Names

Language Arts

Reading

Standard 1 (LA.A.1.2): The student uses the reading process effectively.

Benchmark 3: uses simple strategies to determine meaning and increase vocabulary for reading, including the use of prefixes, suffixes, root words, multiple meanings, antonyms, synonyms, and word relationships

Activity 3: Botanical Wood Prints

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 4: A Bushel and a Peck

Mathematics

Measurement

Junior Master Gardener *Grades 3-5*

Standard 4 (MA.B.4.2): The student selects and uses appropriate units and instruments for measurements to achieve the degree of precision and accuracy required in real-world situations.

Benchmark 1: determines which units of measurement, such as seconds, square inches, dollars per tankful, to use with answers to real-world problems.

Benchmark 2: selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.

Activity 5: Fruit and Veggie Lab

Science

The Nature of Science

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 6: Snooty Fruit

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 7: Apple-ing Appearance

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Junior Master Gardener *Grades 3-5*

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 1: understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.

Activity 8: Taste Test

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Chapter 7: Vegetables and Herbs

Activity 1: Home Sweet Home

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 10: Weed Mats

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Activity 11: Season Extenders

Science

How Living Things Interact with Their Environment

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 3: knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 1: understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science.

Activity 12: Garden to the Table

Language Arts

Reading

Standard 2 (LA.A.2.2): The student constructs meaning from a wide range of texts.

Benchmark 5: reads and organizes information for a variety of purposes, including making a report, conducting interviews, taking a test, and performing an authentic task.

Activity 13: Beauty Contest

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 14: Seed Bank

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Junior Master Gardener *Grades 3-5*

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 15: The Pyramid

Health Education

Health Literacy

Standard 1 (HE.A.1.2): The student comprehends concepts related to health promotion and disease prevention.

Benchmark 10: knows the nutritional values of different foods.

Activity 16: Food Safety

Health Education

Health Literacy

Standard 1 (HE.A.1.2): The student comprehends concepts related to health promotion and disease prevention.

Benchmark 10: knows the nutritional values of different foods.

Activity 17: Label Reader

Health Education

Advocate and Promote Healthy Living

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 2: knows appropriate sources of information for making health-related decisions (e.g., talking to parents concerning growth and development issues).

Standard 1 (HE.B.1.2): The student knows health-enhancing behaviors and how to reduce health risks.

Benchmark 1: knows the importance of assuming responsibility for personal health habits.

Standard 2 (HE.B.2.2): The student analyzes the influence of culture, media, technology, and other factors on health.

Benchmark 1: knows how the media influence thoughts and feelings about health behavior.

Activity 18: Veggie Taste Test

Science

The Nature of Science

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Standard 2 (SC.H.2.2): The student understands that most natural events occur in comprehensible, consistent patterns.

Benchmark 1: knows that natural events are often predictable and logical.

Activity 19: Junk Food Blues

Health Education

Health Literacy

Standard 1 (HE.A.1.2): The student comprehends concepts related to health promotion and disease prevention.

Benchmark 10: knows the nutritional values of different foods.

Standard 1 (HE.B.1.2): The student knows health-enhancing behaviors and how to reduce health risks.

Benchmark 1: knows the importance of assuming responsibility for personal health habits.

Activity 23: Cultural Cooking

Health Education

Responsible Health Behavior

Standard 2 (HE.B.2.2): The student analyzes the influence of culture, media, technology, and other factors on health.

Benchmark 4: understands the role of culture, age, or gender differences in personal health practices (e.g., fitness activities and food preferences).

Social Studies

Time, Continuity, and Change

Standard 6 (SS.A.6.2): The student understands the history of Florida and its people.

Benchmark 5: knows how various cultures contributed to the unique social, cultural, economic, and political features of Florida.

Activity 25: Touch and Smell

Science

The Nature of Science

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Activity 3: Small and Large

Science

How Living Things Interact with Their Environment

Standard 2 (SC.G.2.2): The student understands the consequences of using limited natural resources.

Benchmark 2: knows that the size of a population is dependent upon the available resources within its community.

Activity 4: Rules are Rules

Health Education

Responsible Health Behavior

Standard 1 (HE.B.1.2): The student knows health-enhancing behaviors and how to reduce health risks.

Benchmark 2: compares behaviors that are safe to those that are risky or harmful.

Activity 8: Paper Towel Gardening

Science

How Living Things Interact with Their Environment

Standard 1 (SC.G.1.2): The student understands the competitive, interdependent, cyclic nature of living things in the environment.

Benchmark 7: knows that variations in light, water, temperature, and soil content are largely responsible for the existence of different kinds of organisms and population densities in an ecosystem.

Chapter 8: Life Skills and Career Exploration

Activity 1: Who are you?

Language Arts

Listening, Viewing, and Speaking

Standard 1 (LA.C.1.2): The student uses listening strategies effectively.

Benchmark 5: responds to speakers by asking questions, making contributions and paraphrasing what was said.

Junior Master Gardener *Grades 3-5*

Activity 10: Musical Chairs With a Twist

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.

Activity 11: Over and Under

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.

Activity 12: Cooperation Countdown

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Language Arts

Listening, Viewing, and Speaking

Junior Master Gardener **Grades 3-5**

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.

Activity 13: Garden Shed

Language Arts

Listening, Viewing, and Speaking

Standard 1 (LA.C.1.2): The student uses listening strategies effectively.

Benchmark 4: listens attentively to the speaker, including making eye contact and facing the speaker.

Activity 16: Plant a Seed

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 1: speaks clearly at an understandable rate and uses appropriate volume.

Benchmark 3: speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations.

Benchmark 4: uses eye contact and gestures that engage the audience.

Activity 17: Goal Search

Health Education

Advocate and Promote Healthy Living

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 4: knows how to make progress toward achieving a personal goal (e.g., by creating an action plan for individual wellness).

Activity 18: Right On Target

Health Education

Advocate and Promote Healthy Living

Junior Master Gardener *Grades 3-5*

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 4: knows how to make progress toward achieving a personal goal (e.g., by creating an action plan for individual wellness).

Activity 19: The Class/Club Chronicle

Health Education

Advocate and Promote Healthy Living

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 4: knows how to make progress toward achieving a personal goal (e.g., by creating an action plan for individual wellness).

Activity 2: What Are You Like?

Language Arts

Listening, Viewing, and Speaking

Standard 1 (LA.C.1.2): The student uses listening strategies effectively.

Benchmark 1: listens and responds to a variety of oral presentations, such as stories, poems, skits, songs, personal accounts, and informational speeches.

Activity 20: Watch Me Grow

Health Education

Advocate and Promote Healthy Living

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 4: knows how to make progress toward achieving a personal goal (e.g., by creating an action plan for individual wellness).

Activity 21: Making A Machine

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 3: speaks for specific occasions, audiences, and purposes, including conversations, discussions, projects, and informational or imaginative presentations.

Activity 24: Either/Or

Junior Master Gardener

Grades 3-5

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Activity 25: Let's Make A Case Out Of It

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 1: knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.

Benchmark 2: knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Junior Master Gardener *Grades 3-5*

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 5: knows that a modes of something is different from the real thing, but can be used to learn something about the real thing.

Standard 3 (SC.H.3.2): The student understands that science, technology, and society are interwoven and interdependent.

Benchmark 4: knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.

Activity 26: It's In the Bag

Science

The Nature of Science

Standard 1 (SC.H.1.2): The student uses the scientific processes and habits of mind to solve problems.

Benchmark 3: knows that to work collaboratively, all team members should be free to reach, explain, and justify their own individual conclusions.

Benchmark 4: knows that to compare and contrast observations and results is an essential skill in science.

Activity 28: Consequences

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 2: knows the skills needed to be a responsible friend and family member (e.g., communication and sharing).

Activity 29: Touchdown

Health Education

Advocate and Promote Healthy Living

Standard 1 (HE.C.3.2): The student knows how to use goal-setting and decision making skills which enhance health.

Benchmark 4: knows how to make progress toward achieving a personal goal (e.g., by creating an action plan for individual wellness).

Activity 3: Know Your JMG Friends

Junior Master Gardener

Grades 3-5

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.

Activity 4: Good JMG'ers Wanted Posters

Science

Processes of Life

Standard 2 (SC.F.2.2): The student understands the process and importance of genetic diversity.

Benchmark 1: knows that many characteristics of an organism are inherited from the parents of the organism, but that other characteristics are learned from an individual's interactions with the environment.

Activity 5: How Would You Feel?

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 2: knows the skills needed to be a responsible friend and family member (e.g., communication and sharing).

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Activity 6: Feeling Bee

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Activity 7: Where's My Fruit?

Health Education

Responsible Health Behavior

Junior Master Gardener *Grades 3-5*

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 2: knows the skills needed to be a responsible friend and family member (e.g., communication and sharing).

Activity 8: Let's Build It

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.

Activity 9: JMG Cooperation Roster

Health Education

Responsible Health Behavior

Standard 3 (HE.B.3.2): The student knows how to use effective interpersonal communication skills that enhance health.

Benchmark 4: knows various ways to communicate care, consideration, and acceptance of self and others (e.g., by cooperation).

Language Arts

Listening, Viewing, and Speaking

Standard 3 (LA.C.3.2): The student uses speaking strategies effectively.

Benchmark 5: participates as a contributor and occasionally acts as a leader in a group discussion.