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| **Grade 1 Science**  |
| **SES Standard** | **State Standard** |
| **Strand:**  Plants |  |
| * ID and describe functions of roots, stem & leaves
* Sort leaves based on characteristics
* ID the basic needs of plants
* Describe how a seed grows into a new plant
* Describe how a flower develops into fruit
* ID roots, stems, leaves, seeds and fruit people eat
* Determine if water affects a plant's growth
* Predict the number of seeds in fruits and vegetables
* ID common uses of plants
 | S:SPS1:2:1.2 S:SPS2:2:4.2 S:ESS1:2:5.1S:SPS1:2:1.3 S:SPS2:2:4.3 S:ESS2:2:2.1S:SPS1:2:1.4 S:SPS2:2:5.1 S:PS1:2:1.1S:SPS1:2:1.5 S:SPS2:2:5.2 S:PS1:2:1.2S:SPS1:2:2.2 S:SPS1:2:2.3 S:SPS1:2:3.2 S:SPS1:2:4.2  |
| **Strand:** Animals |  |
| * Compare and contrast animals according to size, shape, movement and other characteristics
* Draw animals that have specified characteristics
* Describe characteristics of insects
* Make a model of an insect
* ID the basic needs of animals
* Compare animal parents and babies; describe how adults help babies
* Observe an animal and record its activities
 | S:SPS1:2:1.2 S:SPS2:2:3.2 S:SPS4:2:3.2S:SPS1:2:1.3 S:SPS2:2:3.3 S:SPS4:2:4.1S:SPS1:2:1.4 S:SPS2:2:4.1 S:SPS4:2:4.3S:SPS1:2:1.5 S:SPS2:2:4.3 S:SPS4:2:6.1S:SPS2:2:2.2 S:SPS3:2:1.1 S:SPS4:2:7.1S:SPS2:2:2.3 S:SPS3:2:1.2 S:PS1:2:2.1S:SPS2:2:3.1 S:SPS3:2:1.3S:SPS2:2:4.2 S:SPS4:2:1.2S:LS1:2:3.1 S:SPS4:2:1.3S:LS2:2:2.1 S:SPS4:2:2.1S:LS4:2:1.1 S:SPS4:2:3.1 |
| **Strand:** Where Plants and Animals Live |  |
| * ID and compare living and nonliving things
* Define habitat and tell what one provides
* ID characteristics that determine if an object is living or nonliving
* ID and classify living and nonliving things
* Describe a forest and desert habitat
* Draw plant and animal habitats
 | S:SPS1:2:1.3 S:SPS2:2:2.1 S:SPS3:2:1.2 S:SPS4:2:4.3S:SPS1:2:1.4 S:SPS2:2:2.2 S:SPS3:2:1.3 S:SPS4:2:6.1S:SPS1:2:1.5 S:SPS2:2:2.3 S:SPS3:2:3.4 S:SPS4:2:7.1S:LS1:2:1.1 S:SPS2:2:3.1 S:SPS4:2:1.3 S:ESS2:2:2.1S:LS1:2:2.1 S:SPS2:2:3.2 S:SPS4:2:2.1 S:EES4:2:3.2S:LS2:2:1.1 S:SPS2:2:3.3 S:SPS4:2:3.1 S:PS1:2:1.1S:LS2:2:2.1 S:SPS2:2:4.2 S:SPS4:2:3.2S:LS3:2:3.2 S:SPS3:2:1.1 S:SPS4:2:4.1 |
| **Strand:**  Grouping Objects |  |
| * Group according to various properties
* Describe properties of solids, liquids and gases
* Use prior knowledge and picture clues to make predictions
* Experiment to see whether the kind of soap affects how long a bubbles lasts
* Draw and classify objects in a graph
* Observe that water can change from solid to liquid to gas
* Observe the results of the evaporation of water and salt water
 | S:SPS1:2:1.2 S:SPS2:2:4.1 S:SPS4:2:3.3 S:PS2:2:1.1S:SPS1:2:1.3 S:SPS2:2:4.3 S:SPS4:2:4.1 S:PS2:2:1.2S:SPS1:2:1.4 S:SPS2:2:5.1 S:SPS4:2:4.2 S:PS4:2:2.2S:SPS1:2:1.5 S:SPS2:2:5.2 S:SPS4:2:4.3S:SPS1:2:2.2 S:SPS3:2:1.1 S:SPS4:2:6.1S:SPS1:2:2.3 S:SPS3:2:1.2 S:SPS4:2:7.1S:SPS1:2:3.2 S:SPS3:2:1.3 S:ESS1:2:2.1S:SPS1:2:4.2 S:SPS3:2:3.1 S:ESS1:2:7.1S:SPS2:2:1.1 S:SPS3:2:3.2 S:PS1:2:2.1S:SPS2:2:1.2 S:SPS4:2:2.1S:SPS2:2:1.3 S:SPS4:2:3.1S:SPS2:2:2.3 S:SPS4:2:3.2S:SPS2:2:3.3 S:SPS4:2:6.1S:SPS4:2:1.2 S:ESS1:2:5.1 |
| **Strand:** Sound, Light and Heat |  |
| * ID sounds as loud, soft, high or low
* Understand that sound is made when an object vibrates
* Observe that sound travels differently through a solid, liquid and gas
* Understand that heat moves more easily through some materials than others
* Explain how a shadow is formed; trace and match shadows
* ID sources of heat
* Observe different insulating materials help to keep ice frozen
 | S:SPS1:2:1.2 S:SPS2:2:1.3 S:SPS4:2:1.2 S:PS1:2:1.1S:SPS1:2:1.3 S:SPS2:2:2.2 S:SPS4:2:2.1 S:PS2:2:1.2S:SPS1:2:1.4 S:SPS2:2:2.3 S:SPS4:2:3.1 S:PS2:2:3.1S:SPS1:2:2.1 S:SPS2:2:3.3 S:SPS4:2:3.2 S:PS2:2:3.2S:SPS1:2:2.2 S:SPS3:2:1.1 S:SPS4:2:3.3 S:PS2:2:3.3S:SPS1:2:2.3 S:SPS3:2:1.2 S:SPS4:2:4.1 S:PS2:2:3.4S:SPS1:2:3.1 S:SPS3:2:1.3 S:SPS4:2:4.2 S:PS4:2:2.2S:SPS1:2:3.2 S:SPS3:2:3.1 S:SPS4:2:4.3 S:PS4:2:3.1S:SPS1:2:4.2 S:SPS3:2:3.2 S:SPS4:2:6.1S:SPS2:2:1.1 S:SPS3:2:3.3 S:SPS4:2:7.1S:SPS2:2:1.2 S:SPS3:2:3.4 S:ESS1:2:5.1S:ESS2:2:2.1 S:ESS2:2:4.2 S:EES4:2:2.1 |
| **Strand:** Moving and Working |  |
| * ID pushing/pulling as a way to move objects
* Understand that pushing/pulling can change speed and direction of motion
* Move an object by changing its direction and speed
* ID objects that are attracted to magnets
* Demonstrate that magnets can attract/repel other magnets
* Understand that simple machines work easier
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| **Strand:** The Earth |  |
| * Describe properties of rocks and how they change
* Observe, measure, collect data about rocks
* ID that soil is made up of many things and ID uses of soil
* Examine three different kinds of soil and discuss compost
* ID air, land and water as feature of Earth; ID ways to conserve them
* Name objects that can be reused/recycled
 | S:SPS1:2:1.2 S:SPS2:2:4.3 S:SPS4:2:1.2 S:SPS4:2:7.1S:SPS1:2:1.3 S:SPS2:2:5.1 S:SPS4:2:1.2 S:ESS1:2:2.1S:SPS1:2:1.4 S:SPS2:2:5.2 S:SPS4:2:2.1 S:ESS1:2:2.2S:SPS1:2:2.1 S:SPS3:2:1.1 S:SPS4:2:3.1 S:ESS1:2:2.3S:SPS2:2:2.1 S:SPS3:2:1.2 S:SPS4:2:3.2 S:ESS1:2:6.1S:SPS2:2:2.2 S:SPS3:2:1.3 S:SPS4:2:4.1 S:ESS1:2:6.2S:SPS2:2:3.3 S:SPS3:2:3.1 S:SPS4:2:4.3 S:EES4:2:3.3S:SPS2:2:4.1 S:SPS3:2:3.2 S:SPS4:2:6.1 S:PS1:2:1.1S:PS1:2:1.2 S:PS1:2:2.1 S:PS2:2:1.1 S:PS2:2:1.2S:PS3:2:1.2 S:PS4:2:2.2 |
| **Strand:** Weather |  |
| * Describe and observe different weather and record
* Make windsock and use it
* Use thermometer to measure temp
* Understand that clouds form when water vapor cools
* Demonstrate how a cloud is formed
* ID ways to stay safe in severe weather
* Describe how weather changes with seasons
* Explain what animals do in winter
 | S:SPS1:2:1.2 S:SPS2:2:4.3 S:SPS4:2:7.1S:SPS1:2:1.3 S:SPS3:2:1.1 S:ESS1:2:1.2S:SPS1:2:1.4 S:SPS3:2:1.2 S:ESS1:2:1.2S:SPS1:2:2.1 S:SPS3:2:1.3 S:ESS1:2:5.1S:SPS1:2:2.2 S:SPS3:2:3.1 S:ESS1:2:7.1S:SPS1:2:3.1 S:SPS3:2:3.2 S:ESS2:2:2.1S:SPS1:2:3.2 S:SPS3:2:3.3 S:PS2:2:1.1S:SPS1:2:4.2 S:SPS4:2:1.2 S:PS4:2:2.2S:SPS2:2:1.1 S:SPS4:2:1.2S:SPS2:2:1.2 S:SPS4:2:2.1S:SPS2:2:1.3 S:SPS4:2:3.1S:SPS2:2:2.2 S:SPS4:2:3.2S:SPS2:2:2.3 S:SPS4:2:3.3S:SPS2:2:3.3 S:SPS4:2:4.1S:SPS2:2:4.2 S:SPS4:2:4.2S:LS2:2:1.3 S:SPS4:2:4.3S:LS4:2:3.5 S:SPS4:2:6.1S:LS5:2:2.1 |
| **Strand:** The Sky |  |
| * Compare day and night sky
* Understand that heat and light from sun are necessary for life on Earth
* Classify objects used during day/night
* Understand that the moon shines from sun reflection and it has phases
* Describe stars and constellations
* Make a model of constellation
 | S:SPS1:2:1.3 S:SPS2:2:3.2 S:SPS3:2:1.3 S:SPS4:2:3.2S:SPS1:2:1.4 S:SPS2:2:3.3 S:SPS3:2:3.1 S:SPS4:2:4.1S:SPS1:2:1.5 S:SPS2:2:4.1 S:SPS3:2:3.5 S:SPS4:2:4.3S:SPS1:2:4.2 S:SPS2:2:4.2 S:SPS4:2:1.2 S:SPS4:2:6.1S:SPS2:2:2.1 S:SPS2:2:4.3 S:SPS4:2:1.2 S:SPS4:2:7.1S:SPS2:2:2.2 S:SPS3:2:1.1 S:SPS4:2:2.1 S:ESS1:2:5.1S:SPS2:2:3.1 S:SPS3:2:1.2 S:SPS4:2:3.1 S:ESS2:2:1.1S:ESS2:2:1.2 S:ESS2:2:2.1 S:ESS2:2:4.1 S:ESS2:2:4.3S:EES3:2:2.1 S:PS2:2:3.2 |
| **Strand:** The Senses |  |
| * Describe what can be observed in a given situation
* Name five sense and how they can be used
* Use hearing to ID sounds
* Experiment to see if you see better with one or two eyes
* Use smell to observe and ID different scents
 | S:SPS1:2:1.1 S:SPS2:2:1.3 S:SPS3:2:1.3 S:SPS4:2:3.2S:SPS1:2:1.4 S:SPS2:2:2.2 S:SPS3:2:3.1 S:SPS4:2:4.1S:SPS1:2:2.2 S:LS2:2:1.2 S:SPS3:2:3.2 S:SPS4:2:4.3S:SPS1:2:2.3 S:LS4:2:1.3 S:SPS3:2:3.3 S:SPS4:2:6.1S:SPS1:2:3.2 S:LS4:2:3.2 S:SPS4:2:1.2 S:SPS4:2:7.1S:SPS1:2:4.2 S:SPS3:2:1.1 S:SPS4:2:2.1S:SPS2:2:1.2 S:SPS3:2:1.2 S:SPS4:2:3.2 |
| **Strand:** Growing and Changing |  |
| * Observe and write changes from infant to present
* Measure body parts
* Learn how teeth grow and how to care for them
* Count teeth and ID loose or missing teeth
* Describe what muscles and bones do
 | S:SPS1:2:1.2 S:SPS2:2:2.1 S:SPS4:2:1.2S:SPS1:2:1.3 S:SPS2:2:2.2 S:SPS4:2:2.1S:SPS1:2:1.4 S:SPS2:2:3.3 S:SPS4:2:3.1S:SPS1:2:2.1 S:SPS2:2:4.1 S:SPS4:2:3.2S:SPS1:2:2.2 S:SPS2:2:4.2 S:SPS4:2:4.1S:SPS1:2:3.2 S:SPS2:2:4.3 S:SPS4:2:4.3S:SPS1:2:4.2 S:SPS3:2:1.1 S:SPS4:2:6.1S:LS4:2:1.2 S:SPS3:2:1.2 S:SPS4:2:7.1S:LS4:2:1.4 S:SPS3:2:1.3 S:PS4:2:2.2S:LS4:2:3.1 S:SPS3:2:3.1S:LS5:2:2.1 S:SPS3:2:3.4 |
| **Strand:** Taking Care of Your Health |  |
| * ID food groups in Food Pyramid
* Describe what promotes good health ie: exercise, cleanliness and rest
* Determine how balance is affected with eyes open/closed
* Use drawings to understand information
* ID ways to stay safe
* Plan a meal that has foods from all six food groups
 | S:SPS1:2:1.3 S:SPS2:2:2.2 S:SPS4:2:1.2 S:SPS1:2:1.4 S:SPS2:2:2.3 S:SPS4:2:2.1S:SPS1:2:2.1 S:SPS2:2:3.1 S:SPS4:2:3.1S:SPS1:2:4.2 S:SPS2:2:5.2 S:SPS4:2:3.2S:LS4:2:1.3 S:SPS3:2:1.1 S:SPS4:2:4.1S:LS4:2:2.1 S:SPS3:2:1.2 S:SPS4:2:4.3S:LS4:2:2.2 S:SPS3:2:1.3 S:SPS4:2:6.1S:LS4:2:2.3 S:SPS3:2:3.1 S:SPS4:2:7.1S:LS4:2:2.4 S:SPS3:2:3.4 |
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