|  |  |
| --- | --- |
| **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:ESS1:2:5.1  S:SPS1:2:1.3 S:SPS2:2:4.3 S:ESS2:2:2.1  S:SPS1:2:1.4 S:SPS2:2:5.1 S:PS1:2:1.1  S:SPS1:2:1.5 S:SPS2:2:5.2 S:PS1:2:1.2  S: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:SPS4:2:3.2  S:SPS1:2:1.3 S:SPS2:2:3.3 S:SPS4:2:4.1  S:SPS1:2:1.4 S:SPS2:2:4.1 S:SPS4:2:4.3  S:SPS1:2:1.5 S:SPS2:2:4.3 S:SPS4:2:6.1  S:SPS2:2:2.2 S:SPS3:2:1.1 S:SPS4:2:7.1  S:SPS2:2:2.3 S:SPS3:2:1.2 S:PS1:2:2.1  S:SPS2:2:3.1 S:SPS3:2:1.3  S:SPS2:2:4.2 S:SPS4:2:1.2  S:LS1:2:3.1 S:SPS4:2:1.3  S:LS2:2:2.1 S:SPS4:2:2.1  S: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:SPS4:2:4.3  S:SPS1:2:1.4 S:SPS2:2:2.2 S:SPS3:2:1.3 S:SPS4:2:6.1  S:SPS1:2:1.5 S:SPS2:2:2.3 S:SPS3:2:3.4 S:SPS4:2:7.1  S:LS1:2:1.1 S:SPS2:2:3.1 S:SPS4:2:1.3 S:ESS2:2:2.1  S:LS1:2:2.1 S:SPS2:2:3.2 S:SPS4:2:2.1 S:EES4:2:3.2  S:LS2:2:1.1 S:SPS2:2:3.3 S:SPS4:2:3.1 S:PS1:2:1.1  S:LS2:2:2.1 S:SPS2:2:4.2 S:SPS4:2:3.2  S: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:PS2:2:1.1  S:SPS1:2:1.3 S:SPS2:2:4.3 S:SPS4:2:4.1 S:PS2:2:1.2  S:SPS1:2:1.4 S:SPS2:2:5.1 S:SPS4:2:4.2 S:PS4:2:2.2  S:SPS1:2:1.5 S:SPS2:2:5.2 S:SPS4:2:4.3  S:SPS1:2:2.2 S:SPS3:2:1.1 S:SPS4:2:6.1  S:SPS1:2:2.3 S:SPS3:2:1.2 S:SPS4:2:7.1  S:SPS1:2:3.2 S:SPS3:2:1.3 S:ESS1:2:2.1  S:SPS1:2:4.2 S:SPS3:2:3.1 S:ESS1:2:7.1  S:SPS2:2:1.1 S:SPS3:2:3.2 S:PS1:2:2.1  S:SPS2:2:1.2 S:SPS4:2:2.1  S:SPS2:2:1.3 S:SPS4:2:3.1  S:SPS2:2:2.3 S:SPS4:2:3.2  S:SPS2:2:3.3 S:SPS4:2:6.1  S: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:PS1:2:1.1  S:SPS1:2:1.3 S:SPS2:2:2.2 S:SPS4:2:2.1 S:PS2:2:1.2  S:SPS1:2:1.4 S:SPS2:2:2.3 S:SPS4:2:3.1 S:PS2:2:3.1  S:SPS1:2:2.1 S:SPS2:2:3.3 S:SPS4:2:3.2 S:PS2:2:3.2  S:SPS1:2:2.2 S:SPS3:2:1.1 S:SPS4:2:3.3 S:PS2:2:3.3  S:SPS1:2:2.3 S:SPS3:2:1.2 S:SPS4:2:4.1 S:PS2:2:3.4  S:SPS1:2:3.1 S:SPS3:2:1.3 S:SPS4:2:4.2 S:PS4:2:2.2  S:SPS1:2:3.2 S:SPS3:2:3.1 S:SPS4:2:4.3 S:PS4:2:3.1  S:SPS1:2:4.2 S:SPS3:2:3.2 S:SPS4:2:6.1  S:SPS2:2:1.1 S:SPS3:2:3.3 S:SPS4:2:7.1  S:SPS2:2:1.2 S:SPS3:2:3.4 S:ESS1:2:5.1  S: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 | S:SPS1:2:1.2 S:SPS2:2:2.2 S:SPS4:2:2.1 S:PS3:2:2.1  S:SPS1:2:1.3 S:SPS2:2:2.3 S:SPS4:2:3.1 S:PS3:2:2.2  S:SPS1:2:1.4 S:SPS2:2:3.3 S:SPS4:2:3.2 S:PS4:2:2.1  S:SPS1:2:2.1 S:SPS2:2:4.3 S:SPS4:2:3.3 S:PS4:2:2.2  S:SPS1:2:2.2 S:SPS2:2:5.2 S:SPS4:2:4.1 S:PS4:2:3.1  S:SPS1:2:2.3 S:SPS3:2:1.1 S:SPS4:2:4.2 S:PS4:2:3.2  S:SPS1:2:3.1 S:SPS3:2:1.2 S:SPS4:2:4.3  S:SPS1:2:3.2 S:SPS3:2:1.3 S:SPS4:2:6.1  S:SPS1:2:4.2 S:SPS3:2:3.1 S:SPS4:2:7.1  S:SPS2:2:1.1 S:SPS3:2:3.2 S:PS1:2:1.1  S:SPS2:2:1.2 S:SPS3:2:3.3 S:PS2:2:1.1  S:SPS2:2:1.3 S:SPS3:2:3.4 S:PS2:2:1.2  S:SPS2:2:2.1 S:SPS4:2:1.2 S:PS3:2:1.1 |
| **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:SPS4:2:7.1  S:SPS1:2:1.3 S:SPS2:2:5.1 S:SPS4:2:1.2 S:ESS1:2:2.1  S:SPS1:2:1.4 S:SPS2:2:5.2 S:SPS4:2:2.1 S:ESS1:2:2.2  S:SPS1:2:2.1 S:SPS3:2:1.1 S:SPS4:2:3.1 S:ESS1:2:2.3  S:SPS2:2:2.1 S:SPS3:2:1.2 S:SPS4:2:3.2 S:ESS1:2:6.1  S:SPS2:2:2.2 S:SPS3:2:1.3 S:SPS4:2:4.1 S:ESS1:2:6.2  S:SPS2:2:3.3 S:SPS3:2:3.1 S:SPS4:2:4.3 S:EES4:2:3.3  S:SPS2:2:4.1 S:SPS3:2:3.2 S:SPS4:2:6.1 S:PS1:2:1.1  S:PS1:2:1.2 S:PS1:2:2.1 S:PS2:2:1.1 S:PS2:2:1.2  S: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:SPS4:2:7.1  S:SPS1:2:1.3 S:SPS3:2:1.1 S:ESS1:2:1.2  S:SPS1:2:1.4 S:SPS3:2:1.2 S:ESS1:2:1.2  S:SPS1:2:2.1 S:SPS3:2:1.3 S:ESS1:2:5.1  S:SPS1:2:2.2 S:SPS3:2:3.1 S:ESS1:2:7.1  S:SPS1:2:3.1 S:SPS3:2:3.2 S:ESS2:2:2.1  S:SPS1:2:3.2 S:SPS3:2:3.3 S:PS2:2:1.1  S:SPS1:2:4.2 S:SPS4:2:1.2 S:PS4:2:2.2  S:SPS2:2:1.1 S:SPS4:2:1.2  S:SPS2:2:1.2 S:SPS4:2:2.1  S:SPS2:2:1.3 S:SPS4:2:3.1  S:SPS2:2:2.2 S:SPS4:2:3.2  S:SPS2:2:2.3 S:SPS4:2:3.3  S:SPS2:2:3.3 S:SPS4:2:4.1  S:SPS2:2:4.2 S:SPS4:2:4.2  S:LS2:2:1.3 S:SPS4:2:4.3  S:LS4:2:3.5 S:SPS4:2:6.1  S: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:SPS4:2:3.2  S:SPS1:2:1.4 S:SPS2:2:3.3 S:SPS3:2:3.1 S:SPS4:2:4.1  S:SPS1:2:1.5 S:SPS2:2:4.1 S:SPS3:2:3.5 S:SPS4:2:4.3  S:SPS1:2:4.2 S:SPS2:2:4.2 S:SPS4:2:1.2 S:SPS4:2:6.1  S:SPS2:2:2.1 S:SPS2:2:4.3 S:SPS4:2:1.2 S:SPS4:2:7.1  S:SPS2:2:2.2 S:SPS3:2:1.1 S:SPS4:2:2.1 S:ESS1:2:5.1  S:SPS2:2:3.1 S:SPS3:2:1.2 S:SPS4:2:3.1 S:ESS2:2:1.1  S:ESS2:2:1.2 S:ESS2:2:2.1 S:ESS2:2:4.1 S:ESS2:2:4.3  S: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:SPS4:2:3.2  S:SPS1:2:1.4 S:SPS2:2:2.2 S:SPS3:2:3.1 S:SPS4:2:4.1  S:SPS1:2:2.2 S:LS2:2:1.2 S:SPS3:2:3.2 S:SPS4:2:4.3  S:SPS1:2:2.3 S:LS4:2:1.3 S:SPS3:2:3.3 S:SPS4:2:6.1  S:SPS1:2:3.2 S:LS4:2:3.2 S:SPS4:2:1.2 S:SPS4:2:7.1  S:SPS1:2:4.2 S:SPS3:2:1.1 S:SPS4:2:2.1  S: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:SPS4:2:1.2  S:SPS1:2:1.3 S:SPS2:2:2.2 S:SPS4:2:2.1  S:SPS1:2:1.4 S:SPS2:2:3.3 S:SPS4:2:3.1  S:SPS1:2:2.1 S:SPS2:2:4.1 S:SPS4:2:3.2  S:SPS1:2:2.2 S:SPS2:2:4.2 S:SPS4:2:4.1  S:SPS1:2:3.2 S:SPS2:2:4.3 S:SPS4:2:4.3  S:SPS1:2:4.2 S:SPS3:2:1.1 S:SPS4:2:6.1  S:LS4:2:1.2 S:SPS3:2:1.2 S:SPS4:2:7.1  S:LS4:2:1.4 S:SPS3:2:1.3 S:PS4:2:2.2  S:LS4:2:3.1 S:SPS3:2:3.1  S: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:SPS4:2:2.1  S:SPS1:2:2.1 S:SPS2:2:3.1 S:SPS4:2:3.1  S:SPS1:2:4.2 S:SPS2:2:5.2 S:SPS4:2:3.2  S:LS4:2:1.3 S:SPS3:2:1.1 S:SPS4:2:4.1  S:LS4:2:2.1 S:SPS3:2:1.2 S:SPS4:2:4.3  S:LS4:2:2.2 S:SPS3:2:1.3 S:SPS4:2:6.1  S:LS4:2:2.3 S:SPS3:2:3.1 S:SPS4:2:7.1  S:LS4:2:2.4 S:SPS3:2:3.4 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |