



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p data-bbox="255 312 546 344"><b><u>Topic One: New Plants</u></b></p> <p data-bbox="255 379 443 411"><b>Brassica Seeds</b></p> <ul data-bbox="304 448 808 815" style="list-style-type: none"><li>• Plants are alive</li><li>• Plants need water, air, nutrients, and light to grow</li><li>• As plants grow, they develop roots, stems, leaves, buds, flowers, and seeds in a sequence called a life cycle</li><li>• Bees and other insects help some plants by moving pollen from flower to flower</li><li>• Scientists use journals to record their observations</li></ul> <p data-bbox="255 855 546 887"><b>Grass and Grain Seeds</b></p> <ul data-bbox="304 924 797 1291" style="list-style-type: none"><li>• Seeds are alive</li><li>• Seeds need water and light to develop into new plants</li><li>• Not all plants grow alike</li><li>• Some plants will die if cut near the ground while others will continue to live</li><li>• Wheat and other cereals that we eat come from seeds called grains</li><li>• Plants have different structures that function in growth and survival</li></ul>	<ul data-bbox="887 448 1368 1190" style="list-style-type: none"><li>• Plant rapid-cycling brassica seeds in soil and observe changes over time</li><li>• Record observations using the techniques of drawing, labeling, and captioning</li><li>• Observe the sequence of changes in the life cycle of brassica</li> <li>• Find out what happens when rye grass and alfalfa plants are grown, then mowed close to the soil surface, and then allowed to grow again</li><li>• Sprout wheat seeds in soda straws and monitor growth</li><li>• Record observations using the techniques of drawing and labeling</li></ul>	<ul data-bbox="1469 448 1805 512" style="list-style-type: none"><li>• FOSS Kit: New Plants</li><li>• Library Books: (see list)</li></ul>



# ISE GRADE ONE SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><b>Stems</b></p> <ul style="list-style-type: none"><li>• New plants can grow from the stems of old plants</li><li>• Leaves, twigs, and roots develop on stems at the nodes</li><li>• Plants make food from light, water, air, and nutrients from soil</li><li>• Potatoes are underground stems</li></ul> <p><b>Bulbs and Roots</b></p> <ul style="list-style-type: none"><li>• Bulbs are alive</li><li>• Bulbs need water to start growing</li><li>• Some parts of roots will grow into new plants; other parts will not</li></ul>	<ul style="list-style-type: none"><li>• Cut plant stems, place them in water or soil, and observe changes over time</li><li>• Discover the parts of a stem that can be induced to produce new plants</li><li>• Discover the conditions that induce root growth on stems</li><li>• Plant rooted shoots to produce new plants from old</li><li>• Record observations using the techniques of drawing and labeling</li></ul> <ul style="list-style-type: none"><li>• Initiate the growth of a new plant from a bulb</li><li>• Initiate the growth of a new plant from a root or part of a root</li><li>• Record observations using the techniques of drawing and labeling</li></ul>	



# ISE GRADE ONE SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p data-bbox="255 312 801 347"><b><u>Topic One A: Plants, Animals and People</u></b></p> <p data-bbox="255 379 353 411"><b>Plants</b></p> <ul data-bbox="309 448 779 651" style="list-style-type: none"><li>• Plants use their parts to survive</li><li>• Plants can be grouped according to their parts and uses</li><li>• Plants produce food and oxygen for people and animals</li><li>• Plants have varied life cycles</li></ul> <p data-bbox="255 823 376 855"><b>Animals</b></p> <ul data-bbox="309 890 824 1193" style="list-style-type: none"><li>• Animals use their parts to live in their environment</li><li>• Animals can be grouped according to their parts and the foods they eat</li><li>• Animals go through different life cycle stages</li><li>• Adult animals produce offspring that are similar but not identical to their parents</li></ul>	<ul data-bbox="891 448 1406 1262" style="list-style-type: none"><li>• Identify the parts of a plant</li><li>• Describe how a plant uses its parts to survive</li><li>• Understand how plants can be grouped</li><li>• Describe how plants are alike and different</li><li>• Identify ways that plants grow and change</li><li>• Understand that plants have predictable but varied life cycles</li> <li>• Describe how animals use different body parts to survive</li><li>• Identify and describe animal defenses</li><li>• Classify animals according to the ways in which they are alike</li><li>• Identify different ways animals can be grouped</li><li>• Identify the ways in which animals change as they grow and mature</li><li>• Recognize that animals have predictable but varied life cycles</li></ul>	<ul data-bbox="1473 347 1989 411" style="list-style-type: none"><li>• Houghton Mifflin Grade One Science,</li><li>• Unit A: Plants, Animals and People</li></ul>



# ISE GRADE ONE SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><b>People</b></p> <ul style="list-style-type: none"><li>• People use their senses and body parts to live and learn about the world</li><li>• People grow and change all through their lives</li><li>• People stay strong and healthy by exercising, getting enough sleep, and eating healthful foods</li></ul>	<ul style="list-style-type: none"><li>• Identify major body parts and their functions</li><li>• Describe how people use their body parts to live and learn about the world</li><li>• Identify ways that people change as they grow</li><li>• Understand that to stay healthy, people need to exercise, eat food for energy, and get enough sleep</li></ul>	