



# ISE GRADE 3 SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><b><u>Topic Two: Structures of Life</u></b></p> <p><b>Origin of Seeds</b></p> <ul style="list-style-type: none"><li>• Seeds are found in the plant part called a fruit.</li><li>• Different kinds of fruits have different kinds and numbers of seeds.</li><li>• Seeds have a variety of properties.</li><li>• Seeds undergo changes in the presence of water.</li><li>• A seed is an organism, a living thing.</li><li>• Seeds store food and provide protection for the young plant.</li></ul>	<ul style="list-style-type: none"><li>• Explore common fruits to find seeds.</li><li>• Observe and compare properties of seeds and fruits.</li><li>• Organize and communicate information about seeds.</li><li>• Set up a seed sprouter and maintain a watering schedule for a week.</li><li>• Monitor and record changes in seeds over days.</li><li>• Investigate the effect of water on seeds.</li><li>• Compare the mass of dry seeds and those soaked in water.</li><li>• Use scientific thinking processes to conduct investigations and build explanations: observing, communicating, comparing and organizing.</li></ul>	<ul style="list-style-type: none"><li>• Full Option System Science (FOSS) Structure's of Life Teacher's Guide.</li><li>• Library Books (see list)</li><li>• Videos (see list)</li><li>• Internet</li></ul>



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<p><b>Growing Further</b></p> <ul style="list-style-type: none"><li>• Germination is the onset of a seed’s growth.</li><li>• Plants need water, light, and nutrients to grow.</li><li>• Hydroponics is the technique of growing plants in water.</li><li>• The life cycle is the process of a seed growing into a mature plant, which in turn produces seeds.</li></ul> <p><b>Meet the Crayfish</b></p> <ul style="list-style-type: none"><li>• Crayfish have identifiable structures</li><li>• Crayfish require clean water, food and space.</li><li>• Behavior is what an animal does.</li><li>• Habitat is where an animal lives.</li><li>• Some animals claim a territory that they protect from other animals.</li><li>• We must take care not to harm animals as we learn about them.</li></ul>	<ul style="list-style-type: none"><li>• Describe properties of germinated seeds.</li><li>• Compare different kinds of germinated seeds.</li><li>• Plant bean seedlings in nutrient solution and observe them throughout their life cycle.</li><li>• Observe plant structures as they appear during the plant’s life cycle.</li><li>• Use scientific thinking processes to conduct investigations and build explanations: observing, communicating, comparing and organizing.</li></ul> <ul style="list-style-type: none"><li>• Care for and feed a crayfish.</li><li>• Observe its structures and behaviors.</li><li>• Record observations and share them with other students.</li><li>• Monitor and record observations of crayfish over several days.</li><li>• Investigate the territorial behavior of crayfish.</li><li>• Use scientific thinking processes to conduct investigations and build explanations: observing, communicating, comparing and organizing.</li></ul>	



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<p><b>Meet the Land Snail</b></p> <ul style="list-style-type: none"><li>• Land snails require water, food, air, and space.</li><li>• The structures of animals have particular functions that help them survive.</li><li>• The shell of the land snail helps protect it during dry conditions.</li><li>• The soft, moist foot of the land snail allows it to move and stick to a variety of surfaces.</li><li>• We must take care not to harm animals as we learn about them.</li></ul>	<ul style="list-style-type: none"><li>• Maintain a care-and-feeding routine for land snails.</li><li>• Compare the structures, functions, and behaviors of land snails and crayfish.</li><li>• Investigate the pulling strength of land snails.</li><li>• Record observations and share them with other students.</li><li>• Monitor and record observations of land snails over time.</li><li>• Use scientific thinking processes to conduct investigations and build explanations: observing, communicating, comparing and organizing.</li></ul>	