

## Expectations and Outcomes

Grade Level/Course: Seventh Grade

Content Area: Science

Unit Title	Guarantees
What is Life	<ul style="list-style-type: none"> <li>• Know the characteristics living things must have</li> <li>• Where living things come from</li> <li>• What do living things need to survive</li> </ul>
Classifying life	<ul style="list-style-type: none"> <li>• Why do biologists classify organisms?</li> <li>• What are the levels of classification</li> </ul>
Cells	<ul style="list-style-type: none"> <li>• How scientists first observed cells</li> <li>• Functions of cell organelles</li> </ul>
Photosynthesis and Respiration	<ul style="list-style-type: none"> <li>• Recognize that photosynthesis and cellular respiration are opposite processes</li> </ul>
Genetics	<ul style="list-style-type: none"> <li>• Offspring inherit traits from both parents</li> <li>• Traits can be dominant or recessive</li> <li>• All cells contain DNA which is the instructions for the cell</li> </ul>
Virus	<ul style="list-style-type: none"> <li>• Debate on if they are living or nonliving</li> <li>• How they replicate using living cells</li> </ul>
Bacteria	<ul style="list-style-type: none"> <li>• Bacteria are living things with no true nucleus</li> <li>• Bacteria are essential to life</li> <li>• They are single celled microscopic organisms use of antibiotics; why not for viral infections</li> </ul>
Protist	<ul style="list-style-type: none"> <li>• Most are microscopic uni-cellular organisms3 categories: animal like, plant like, or fungus like how they eat, move, and reproduc</li> </ul>
Fungi	<ul style="list-style-type: none"> <li>• Fungi are heterotrophs that absorb nutrients through hyphae</li> </ul>
Plants	<ul style="list-style-type: none"> <li>• Plants share characteristics that allow them to live on land</li> </ul>

Unit Title	Guarantees
	<ul style="list-style-type: none"> <li>• Plants can be divided as either vascular or nonvascular</li> <li>• Plants have a root system and a shoot system</li> <li>• Seeds are comprised of a seed coat, embryo and stored food</li> <li>• How do seeds disperse to form new plants</li> <li>• Tropisms are a plant growth response to a stimulus</li> </ul> <p>How to care for the growth of a seed</p>
Animals	<ul style="list-style-type: none"> <li>• Animals have uniquely organized structures called a body plan</li> <li>• Animals are organized into invertebrates and vertebrates for classification</li> <li>• An earthworm is an invertebrate</li> <li>• An earthworm's cells create different organ systems</li> <li>• An arthropod is an invertebrate that has a unique exoskeleton</li> <li>• Starfish have a unique water vascular system</li> <li>• Vertebrates are animals with backbones</li> <li>• Amphibians are vertebrates with a unique organ system that closely reflects that of a human.</li> </ul>