

YEAR AT A GLANCE: *LIVING ENVIRONMENT* (updated Oct 2024)

	<u>UNIT 1</u>	<u>UNIT 2</u>	<u>UNIT 3</u>	<u>UNIT 4</u>	<u>UNIT 5</u>	<u>UNIT 6</u>
Title	Introduction: Classification	Cells & Cellular Process	Heredity & Molecular Genetics	Human Body Systems	Ecology & Human Impact	Evolution
Unit Length <i>(weeks taught)</i>	3 weeks	5 weeks	5 weeks	7 weeks	10 weeks	6 weeks
Enduring Understanding <i>(The big ideas, the “why” we include these ideas)</i>	Unit Enduring Understanding: -The Scientific Method is a technique used in science, as well as everyday life, as a means to solve problems. -Safety is a vital component of proper laboratory technique. -Classification is a tool that humans use to	Unit Enduring Understanding: All living things are made up of cells, which are the building blocks of life. Cells need matter and energy to function. Energy must be obtained and transformed into a usable state.	An organism’s characteristics are passed from one generation to the next. Instructions for these characteristics are located on the organism’s chromosomes. Genes are located on the DNA molecules. The genetic code is universal.	The human body is organized into systems which interact to sustain life.	Organisms are interdependent and changes in ecosystems impact which organisms survive. Humans have a significant impact upon the environment.	Organisms change over time and these changes can be indirectly observed via a number of methods.

	give sense and order to the world. Using classification we can see that living things share common characteristics and requirements.					
Essential Questions <i>(What do we want students to think about)</i>	<p>Why do we use the scientific method?</p> <p>How does one practice "safe methods" in the science laboratory?</p> <p>How and why do we classify things?</p> <p>What do all living things have in common?</p> <p>What are the six kingdoms</p>	<p>What are the functions of the major cell structures?</p> <p>What do cells need to function?</p> <p>How does energy cycle through the cell?</p> <p>How big are cells and how do we observe them?</p> <p>How do cells get energy?</p> <p>What role do</p>	<p>How do organisms reproduce?</p> <p>How do organisms get their characteristics?</p> <p>Why are offspring similar and different from their parents?</p>	<p>How is the body organized?</p> <p>How do the body systems work together?</p> <p>How does the body use food?</p>	<p>How are organisms interdependent?</p> <p>How does energy and matter move in an ecosystem?</p> <p>How do changes in an ecosystem affect the survival of organisms?</p>	<p>How do organisms change over time? What evidence proves evolution occurred in the past? What evidence do we have to prove that evolution is still occurring?</p>

	and what characteristics separate them?	enzymes play in terms of energy requirements? What's the difference between how plant and animal cells get energy?				
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