

Time	Unit	Textbook	Objectives	Standards	Activities/Assessments
9 days	An Introduction to Biology: Scientific Method, Laboratory Safety, Characteristics of Life, and Biological Themes	Chapter 1	<p>Students will be able to:</p> <p>Distinguish between hypothesis, theory, and law.</p> <p>Identify and explain the steps in the scientific method.</p> <p>Collect, organize, and interpret data.</p> <p>Use the metric system to measure physical properties of matter, including length, volume, and mass.</p> <p>Design a controlled experiment.</p> <p>Write a lab report.</p> <p>Describe laboratory safety guidelines and follow them correctly in a laboratory setting.</p> <p>Summarize the characteristics that all living things share.</p> <p>Summarize and give an example of each of the four major unifying themes of biology.</p>	<p>2.1 AE Students understand scientific ways of thinking and working and use those methods to solve real life problems.</p> <p>SC-H-BC-S-6 Students will distinguish between a scientific law, theory, hypothesis and unsupported supposition/claim</p> <p>SC-H-BC-S-7 Students will investigate the historical development and revision of a variety of accepted scientific laws, theories and claims</p> <p>SC-H-BC-U-5 Students will understand that in science the term theory is reserved to describe only those ideas that have been well tested through scientific investigation. Scientific theories are judged by how well they fit with other theories, the range of observations they explain, how well they explain observations and their usefulness in predicting new findings. Scientific theories usually grow slowly through contributions from many investigators.</p> <p>SC-H-STM-S-15 Students will generate investigable questions and conduct experiments or non-experimental research to address them, using evidence to defend conclusions</p> <p>SC-H-STM-U-9 Students will understand that accurate record-keeping, openness and replication are essential for maintaining credibility with other scientists and society.</p>	<ul style="list-style-type: none"> • Pretest • Powerpoint notes • Vocabulary • Bell ringers • Language of science worksheets • Create a new creature writing project • Lab safety review and quiz • Spaghetti lab – metric system and graphing • Density lab • Design an experiment • Spongebob experiment worksheet – controls and variables • Scientific method worksheet • Characteristics of life worksheet • Posttest