

Middle School Science

Level/Course	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<p>Grade 6</p>	<p>Content: The Nature of Science, Physical Science (Matter)</p> <p>Skills: designing experiments, measuring data, using the periodic table of elements, modeling compounds</p>	<p>Content: Physical Science (Forces, Motion, Machines)</p> <p>Skills: using Newton's Laws to understand daily events, using machines to do work</p>	<p>Content: Earth Science (Earth, Air, Water)</p> <p>Skills: modeling watersheds, predicting weather, reading weather maps</p>	<p>Content: Life Sciences (Diversity of Life and Ecology)</p> <p>Skills: following a dichotomous key to categorize living things, predicting structure versus function adaptations</p>
<p>Grade 7</p>	<p>Content: Earth Science (Earth's Composition & Structure)</p> <p>Skills: demonstrating the relationship between the properties, availability and usefulness of minerals and their uses today</p>	<p>Content: Physical Science (Energy, Matter)</p> <p>Skills: modeling and explaining larger energy systems, connecting sources and properties of energy with human uses of energy in our universe</p>	<p>Content: Life Science (Adaptation, Environment)</p> <p>Skills: connecting biodiversity with economic impact, resource use, pollution, and population growth</p>	<p>Content: Life Science (Human Systems)</p> <p>Skills: understanding the function of cells and organisms, modeling the interrelated functions of cells, tissues, and organs in human body systems</p>
<p>Grade 8</p>	<p>Content: Earth Science and Astronomy (Matter, Motion in the Universe)</p> <p>Skills: relating sizes and distances in the universe, identifying and comparing matter and energy systems in the universe</p>	<p>Content: Physical Science (Atomic Structure, Bonds, Reactions)</p> <p>Skills: predict properties of elements, recognize patterns, create models and explore reactions</p>	<p>Content: Life Science (Heredity, Reproduction)</p> <p>Skills: analyzing the processes behind gene transfer and DNA replication in predicting traits of living things; identifying the role of chemistry in all biological processes</p>	<p>Content: Life Science (Reproduction, Diversity, Evolution)</p> <p>Skills: analyzing the processes behind adaptations to changing environments in predicting traits, predicting probable adaptations to specific conditions</p>