

6th Grade Advanced Science Parent Guide

This course is designed to provide students with the advanced skills necessary to apply science concepts to their everyday life. Along with being able to ask questions and solve problems, students are able to collect and organize data, and draw conclusions based on their findings. While much of the focus is on physical science, the course is built on the following strands: scientific investigations and reasoning; matter and energy; force, motion, and energy; earth and space; and organisms and environment. In advanced science, students will engage in inquiry-based science including designing and conducting their own investigations, learning to use and develop critical thinking skills, and using problem-solving methods. Texas Essential Knowledge and Skills for Grade 6 Science §112.18. Science, Grade 6, Adopted 2017

1 st 6 Weeks: Introduction to Science/Safety Interactions in an Environment Prokaryotic & Eukaryotic Cells Classifications of Organisms	4 th 6 Weeks: Elements and Compounds Formation of a New Substance Metals, Nonmetals & Metalloids Density
2nd 6 Weeks: Potential and Kinetic Energy Changes in Force & Motion Inclined Planes	5 th 6 Weeks: Thermal Energy Energy Transformations Energy Resources Space: Gravity
3 rd 6 Weeks: Layers of the Earth Tectonic Plates Classifying Rocks and Minerals Classifying Minerals	6 th 6 Weeks: Space: Gravity Space: Celestial Bodies Space Exploration

Questions? Please contact your course science teacher.