

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 in designing and conducting their own investigations, learning to use and develop critical thinking skills, and using problem-solving skills. Texas Essential Knowledge and Skills for Grade 6 Science [§112.18. Science, Grade 6, Adopted 2017](#)

1st 6 Weeks:
 Introduction to Science/Safety
 Interactions in an Environment
 Prokaryotic & Eukaryotic Cells
 Classifications of Organisms

4th 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

5th 6 Weeks:
 Thermal Energy
 Energy Transformations
 Energy Resources
 Space: Gravity