

## 8<sup>th</sup> Grade Advanced Science Parent Guide

This course is designed to provide students with the advanced skills necessary to be able to use evidence to construct testable explanations and predictions of natural phenomena. While much of the focus is on earth and space 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 8 Science [§112.20. Science, Grade 8, Adopted 2017](#)

<p><b>1<sup>st</sup> 6 Weeks:</b> Introduction to Science and Safety Matter and Energy Atoms Periodic Table</p>	<p><b>4<sup>th</sup> 6 Weeks:</b> Characteristics of the Universe Climate Interactions Plate Tectonics</p>
<p><b>2<sup>nd</sup> 6 Weeks:</b> Chemical Formulas, Equations and Reactions Force, Motion and Energy</p>	<p><b>5<sup>th</sup> 6 Weeks:</b> Plate Tectonics Topographic Maps and Satellites Interdependence of Living Things</p>
<p><b>3<sup>rd</sup> 6 Weeks:</b> Force, Motion and Energy Sun, Earth, and Moon</p>	<p><b>6<sup>th</sup> 6 Weeks:</b> Interdependence of Living Things 8<sup>th</sup> Grade Science STAAR Review 8<sup>th</sup> Grade Science STAAR Exam</p>

**Questions?** Please contact your course science teacher.