

## 7<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 organisms and the environment, 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 7 Science §112.19. Science, Grade 7, Adopted 2017

1st 6 Weeks: Introduction to 7th Grade Science and Safety Photosynthesis Tropisms & Turgor Pressure Adaptations and Variations Dichotomous Keys	4 <sup>th</sup> 6 Weeks: Cell Theory Plant and Animal Cells Organization of Organisms
2 <sup>nd</sup> 6 Weeks: Biomes Food Chains, Food Webs, Energy Pyramids Biodiversity Succession Weathering, Erosion, Deposition	5 <sup>th</sup> 6 Weeks: Human Body Systems Chemical and Physical Changes in Digestion Energy and Force
<b>3rd 6 Weeks:</b> Weathering, Erosion, Deposition Watersheds & Groundwater Catastrophic Events	6 <sup>th</sup> 6 Weeks: Diversity of Organisms and Reproduction Chromosomes Heredity Variations and Adaptions Solar System and Life Space Exploration

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