EAGLE MOUNTAIN SAGINAW ISD
Curriculum and Instruction

6th Grade Advanced Science Parent Guide

This course is designed to provide students with the skills necessary to apply science concepts to their everyday life. Students will ask questions, plan and conduct investigations, and explain phenomena using appropriate tools and models. Students will identify problems and design solutions using engineering design practices. Recurring themes and concepts will be explored to make connections between overarching concepts. This course is built on the following strands: scientific and engineering practices; 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 and learning to use and develop critical thinking skills. Texas Essential Knowledge and Skills for Grade 6 Science §112.26 Science, Grade 6, Adopted 2021

1st 6 Weeks: Introduction to Science/Safety -Interactive Science Notebooks Properties and Changes in Matter: Comparing Solids, Liquids, and Gases Physical Properties of Matter Metals, Nonmetals, and Metalloids Identifying Chemical Changes	**4th 6 Weeks:** Managing Earth's Resources: Air Resources Water Resources Soil Resources Energy Resources
2nd 6 Weeks: Exploring Forces: Types of Forces Measuring Forces Energy: Kinetic & Gravitational Potential Conservation of Energy Other Types of Potential Energy Waves and Energy Transfer	**5th 6 Weeks:** Organisms and Ecosystems: Ecosystem Organization Competition Among Organisms Interactions in Ecosystems Variations in Populations
3rd 6 Weeks: Earth-Sun-Moon System: Earth's Movement and Seasons Tides Earth's Structure Earth's Spheres Earth's Layers Rock Cycle	**6th 6 Weeks:** Introduction to Living Things: Cell Theory Characteristics of Living Things

Questions? Please contact your course science teacher.