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Description automatically generated**6th Grade Advanced Science Parent Guide**

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| 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](https://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=19&pt=2&ch=112&rl=26) | |
| 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.