

## Astronomy Science Parent Guide

Students will conduct laboratory and field investigations, use scientific processes, and make informed decisions using critical thinking and scientific problem solving. Students will study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the season, planets, the sun, stars, galaxies, cosmology and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, and work collaboratively. Texas Essential Knowledge and Skills for Astronomy [§112.33. Astronomy](#)

**1<sup>st</sup> 6 Weeks:**

Introduction to Astronomy  
Constellations, Motion, and Observation  
Astronomy in Society, Past and Present

**4<sup>th</sup> 6 Weeks:**

Spectroscopy  
Telescopes  
Classification & Magnitude of Stars  
H-R Diagrams  
Stellar Evolution

**2<sup>nd</sup> 6 Weeks:**

Our Solar System: Comparing Earth to Other Planets  
Small Objects in Our Solar System  
Sizes, Scales, and Modeling  
Earth's Seasons  
The Moon

**5<sup>th</sup> 6 Weeks:**

Galaxies  
Cosmology  
Exoplanets/Astrobiology

**3<sup>rd</sup> 6 Weeks:**

The Sun  
Kepler's Laws of Planetary Motion

**6<sup>th</sup> 6 Weeks:**

Exoplanets/Astrobiology  
Space Exploration

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