ASTRONOMY
Year at a Glance (YAG)
2025-2026

First Semester		Second Semester	
1st Nine Weeks – 41 days (August 14th – October 16th) *(September 2th – Labor day – No School)* *(October 10th – Staff Development)* *(October 13th – Staff Development)*		**3rd Nine Weeks – 44 days** (January 6th – March 6th) *(January 19th – MLK – No School)* *(March 9th – 13th – Spring Break)*	
TEKS AST.3A, AST.3B, AST.3C, AST.3D AST.4A, AST.4B, AST.4C AST.4C AST.5A, AST.5B, AST.5C, AST.6E, AST.7A, AST.7B, AST.7C, AST.7D AST.8A, AST.8B, AST.8C, AST.8D	**Unit 1: Foundation of Astronomy** Students will research and describe the use of astronomy in ancient civilizations. -The student recognized the importance and uses of astronomy in civilization. -The study of astronomy is evidence based and important to our civilization. **Unit 2: Earth, Moon, and Sun: Motions and Interactions** The student develops a familiarity with the sky. -The motion of the Earth, Moon and Sun in relation to each other affects systems on Earth. -The student knows the role of the Moon in the Sun, Earth and Moon system. -The student knows the reason for the seasons.	**TEKS** AST.4B, AST.4D AST.6C, AST.6D AST.10A, AST.10B, AST.10C, AST.10D AST.11A, AST.11F, AST.11G AST.14.B, AST.14C, AST.14D, AST.14E AST.6C, AST.6D, AST.6E AST.11A, AST.11B, AST.11C, AST.11D, AST.11E, AST.11F, AST.11G AST.12A, AST.12B, AST.12C	**Unit 5: Fundamentals of Stellar Astronomy: Light, The Sun, and Measuring Stars** -The student examines the scale, size, and distance of the stars through the use of data and modeling. -The student knows the role of the Sun as the star in our solar system. -The student knows the characteristics and life cycle of stars. -The student recognizes the benefits and challenges of space exploration to the study of the universe. **Unit 6: Evolution of Stars and Galaxies** -The student examines the scale, size, and distance of the stars and galaxies through the use of data and modeling. -The student knows the life cycle of stars. -The student knows the variety and properties of galaxies.
2nd Nine Weeks – 43 days (October 20th – December 19st) *(November 24th – 28th – Thanksgiving Break)* *(December 22nd – January 2nd – Holiday Break)*		**4th Nine Weeks – 45 days** (March 17th – May 21nd) *(April 24th – Good Friday – No School)* *(May 3rd – Battle of Flowers – No School)*	
TEKS AST.4B AST.6A, AST.6B AST.9A, AST.9B, AST.9C AST.4B AST.6A, AST.6B AST.9A, AST.9B, AST.9C, AST.9D	**Unit 3: Exploring the Inner Solar System** Research and describe the contributions of scientists to our changing understanding of astronomy. -The student knows our place in space. -The student knows that planets of different size, composition, and surface features around the Sun. **Unit 4: Exploring the Outer Solar System** Research and describe the contributions of scientists to our changing understanding of astronomy. -The student knows our place in space. -The student knows that planets of different size, composition, and surface features around the Sun. By the end of these 2 units:, students will be able to answer these questions: How did the Solar System form? What is the structure of the Solar System? What objects can be found in the inner Solar System and what are their characteristics? Outer Solar System? How do the characteristics of Earth allow life to exist as compared to the characteristics of other planets in our solar system? What is the role of Newton's law of universal gravitation in the motion of the planets around the Sun and to the motion of satellites around planets?	**TEKS** AST.4B, AST.4C AST.13A, AST.13B, AST.13C AST.14A, AST.14B, AST.14C, AST.14D, AST.14E varied	**Unit 7: Cosmology, Manned Space Exploration, and SETI** -The student knows our place in space. -The student knows the scientific theories of cosmology. -The student recognizes the benefits and challenges of space exploration to the study of the universe. **Universe Research Project**