CFISD Astronomy

Scope and Sequence 2024-2025

In Astronomy, students focus on patterns, processes, and relationships among astronomical objects in our universe. Students acquire astronomical knowledge and supporting evidence about Sun-Earth-Moon relationships, the solar system, the MIlky Way, the size and scale of the universe, and the benefits and limitations of exploration. Students conduct laboratory and field investigations to support their developing conceptual framework of our place in space and time.

- Required prerequisites: Algebra I and IP&C or Chemistry
- Recommended prerequisite: Physics

Texas Essential Knowledge and Skills: Astronomy

Instructional Units	Days**	Date Range	
First Semester	**81**	**Start Date**	**End Date**
1st Grading Period (8/19/2024 - 10/18/2024)			
Unit 1: Astronomical Observations Over Time*	22	8/19/24	9/18/24
Unit 2: Sun - Earth - Moon System	13	9/19/24	10/7/24
Unit 3: Our Solar System	8	10/8/24	10/18/24
2nd Grading Period (10/21/2024 - 12/20/2024)			
Unit 3: Our Solar System(continued)	13	10/21/24	11/8/24
Unit 4: Planetary Seasons	20	11/11/24	12/13/24
Review & Final Exams	5	12/16/24	12/20/24
Second Semester	**92**	**Start Date**	**End Date**
3rd Grading Period (1/7/2025 - 3/7/2025)			
Unit 5: Our Sun	10	1/7/25	1/21/25
Unit 6: Determining Stellar Characteristics	15	1/22/25	2/11/25
Unit 7: Life Cycles of Stars	16	2/12/25	3/7/25
4th Grading Period (3/17/2025 - 5/29/2025)			
Unit 8: Galaxies	15	3/17/25	4/4/25
Unit 9: Theories of Cosmology	15	4/7/25	4/29/25
Unit 10: Space Exploration	16	4/30/25	5/21/25
Review & Final Exams	5	5/22/25	5/29/25

* 3 days are included for Campus/Classroom Procedures and Laboratory Safety

**The length of each unit is a specific number of days, but it is understood that there is a range of +/- a day. The purpose of the flexibility is to allow teachers to plan for their students' needs and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in fewer days, the additional time could be used for extension or carried into the next unit.

Instructional Material(s):

Foundations of Astronomy

Seeds, Backman

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14th Edition