CFISD Physics Course Scope and Sequence (2025–2026)

Course Description

In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Texas Essential Knowledge and Skills: Physics

First Semester (81 Days)

1st Grading Period (Aug. 13 – Oct. 9, 2025)

Unit	Title	Date Range	Days**
--	SEL & Lab Safety	Aug.13 – Aug. 15, 2025	3
Unit 1	Constant Motion	Aug. 18 – Sept. 9, 2025	16
Unit 2	Force Interactions	Sept. 10 – Sept. 25, 2025	12

2nd Grading Period (Oct. 15 – Dec. 18, 2025)

Unit	Title	Date Range	Days**
Unit 3	Changing Motion: Law of Acceleration	Sept. 26 – Oct. 21, 2025	15
Unit 4	Changing Motion: Impulse and Work	Oct. 22 – Nov. 11, 2025	13
Unit 5	Force Analysis	Nov. 12 – Dec. 2, 2025	10
Unit 6	1D Motion	Dec. 3 – Dec. 10, 2025	6
--	Finals Review and Exams	Dec. 11 – Dec. 18, 2025	6

Last updated: July 15, 2025

Second Semester (92 Days)

3rd Grading Period (Jan. 6– Mar. 6, 2026)

Unit	Title	Date Range	Days**
Unit 7	2D Motion	Jan. 6 – Feb. 2, 2026	19
Unit 8	Conservation of Mechanical Systems	Feb. 3 – Feb. 27, 2026	17
Unit 9	Oscillatory Motion	Mar. 2 – Mar 6, 2026	5

4th Grading Period (Mar. 16 – May 28, 2026)

Unit	Title	Date Range	Days**
Unit 10	Mechanical Waves	Mar. 16 – Mar. 24, 2026	7
Unit 11	Conservation of Charge	Mar. 25 – Apr. 21, 2026	18
Unit 12	Electromagnetic Induction	Apr. 22 – Apr. 29, 2026	6
Unit 13	Electromagnetic Waves (Light)	Apr. 30 – May 8, 2026	7
Unit 14	Quantum	May 11 – May 19, 2026	7
--	Final Review and Exams	May 20 – May 28, 2026	6

**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 the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Material(s):

Texas Physics Comprehensive Student Bundle

Zitzewitz et al

McGraw-Hill Education

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