

CFISD Physics Course Scope and Sequence (2026–2027)

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 (80 Days)

1st Grading Period (Aug. 12 – Oct. 8, 2026)

Unit	Title	Date Range	Days**
--	SEL & Lab Safety	Aug. 12 – Aug. 14, 2026	3
Unit 1	Constant Motion	Aug. 17 – Sept. 8, 2026	16
Unit 2	Changing Motion: Law of Acceleration	Sept. 9 – Sept. 22, 2026	10
Unit 3	Force Interactions	Sept. 23 – Oct. 8, 2026	12

2nd Grading Period (Oct. 19 – Dec. 18, 2026)

Unit	Title	Date Range	Days**
Unit 4	Force Analysis	Oct. 19 – Nov. 2, 2026	11
Unit 5	1D Motion	Nov. 4 – Nov 16, 2026	9
Unit 6	2D Motion	Nov. 17 – Dec. 11, 2026	14
--	Finals Review & Exams	Dec. 14 – Dec. 18, 2026	8

Second Semester (93 Days)

3rd Grading Period (Jan. 5 – Mar. 11, 2027)

Unit	Title	Date Range	Days**
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Last updated: May 13, 2026

Unit 7	Momentum	Jan. 5 - Jan. 26, 2027	15
Unit 8	Energy	Jan. 27 - Feb. 17, 2027	16
Unit 9	Oscillations & Mechanical Waves	Feb. 18 - Mar. 11, 2027	15

4th Grading Period (Mar. 22 – May 27, 2027)

Unit	Title	Date Range	Days**
Unit 10	Electrostatics and Circuits	Mar. 22 - April 20, 2027	21
Unit 11	Electromagnetic Induction	Apr. 21 - Apr. 30	7
Unit 12	EM Waves and Quantum Phenomenon	May 3- May 19, 2027	13
	Finals Review and Exams	May 20- May 27, 2027	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 meant 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