

# CFISD Integrated Physics and Chemistry Course Scope and Sequence (2026–2027)

## Course Description

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter. • Required prerequisite : Biology

## Texas Essential Knowledge and Skills: [IPC](#)

### First Semester (80 Days)

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

| Unit   | Title                          | Date Range              | Days** |
|--------|--------------------------------|-------------------------|--------|
| Unit 1 | Graphing and Analyzing Motion* | Aug. 12 – 31, 2026      | 14     |
| Unit 2 | Momentum in Collisions         | Sep. 1 – Sep. 17, 2026  | 13     |
| Unit 3 | The Four Fundamental Forces    | Sep. 18 – Sep. 28, 2026 | 7      |
| Unit 4 | Gravity and Electromagnetism   | Sep. 29 Oct. 8, 2026    | 7      |

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

| Unit                 | Title                               | Date Range              | Days** |
|----------------------|-------------------------------------|-------------------------|--------|
| Unit 5               | Series and Parallel Circuits        | Oct. 19 – Oct. 27, 2026 | 9      |
| Unit 6               | Generating Electricity              | Oct. 28 – Nov. 11, 2026 | 9      |
| Unit 7               | Conservation of Energy              | Nov. 12 – Nov. 21, 2026 | 8      |
| Unit 8               | Transferring Energy and Information | Dec. 1 – Dec. 12, 2026  | 9      |
| Review & Final Exams |                                     | Dec. 15 – Dec. 18, 2026 | 4      |

## Second Semester (93 Days)

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

| Unit    | Title                           | Date Range              | Days** |
|---------|---------------------------------|-------------------------|--------|
| Unit 9  | Renewable Energy                | Jan. 5 – Jan. 20, 2027  | 11     |
| Unit 10 | Elements and the Periodic Table | Jan. 21 – Feb. 3, 2027  | 11     |
| Unit 11 | Using Properties of Substances  | Feb. 4 – Feb.19, 2027   | 11     |
| Unit 12 | Atomic Emission Spectra         | Feb. 20 – Mar. 11, 2027 | 13     |

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

| Unit                 | Title                                    | Date Range              | Days** |
|----------------------|------------------------------------------|-------------------------|--------|
| Unit 13              | Investigating Reactions & Solution Rates | Mar. 16 – Mar. 25, 2027 | 8      |
| Unit 14              | Changes in Chemical Reactions            | Mar. 26 – Apr. 9, 2027  | 8      |
| Unit 15              | Balancing Reactions                      | Apr. 10 – Apr. 22, 2027 | 8      |
| Unit 16              | Nuclear Reactions                        | Apr. 23 – May. 6, 2027  | 9      |
| Unit 17              | Chemistry's Impact on the Environment    | May 7 – May 21, 2027    | 10     |
| Review & Final Exams |                                          | May 22 – May 28, 2027   | 4      |

\*3 days added for beginning of the year 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 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):** [Accelerate Learning Stemscores](#)