



Yearly Overview

Grade 8 IPC

2020-2021

Semester 1

Term 1

- Lab Safety/Back to School/Nature of Science/Canvas Intro.
- Properties of Matter – Physical & Chemical
- Atomic Structure & Chemical Properties
- Periodic Table
- Chemical Bonds & Reactions
- Formulas, Equations, & Law of Conservation of Mass
- Solutions, Acids, Bases, & Salts

Term 2

- Wave Characteristics & Electromagnetic Spectrum
- Origin of the Universe
- Characteristics of the Universe
- Star Formation & HR Diagram
- Gravitational Attraction
- Rotation – Day/Night Revolution – Seasons
- Lunar Cycle & Tides

Semester 2

Term 3

- Energy Transformations & Conservation
- Balanced & Unbalanced Forces
- Newton's Laws of Motion
- Speed, Velocity, Acceleration
- Plate Tectonic Theory
- Plate Tectonics & Crustal Features
- Topography & Satellite Images
- Sun's Energy - Thermal Energy & Currents
- Climatic Interactions & Weather Maps

Term 4

- Biotic/Abiotic Factors & Competition
- Effect of Short/Long-term Environmental Changes
- Human Impact/Dependence on the Environment
- Circuits & Magnets
- STAAR Countdown