

## SCIENCE 10

**Credits:** 4

**Purpose:** To familiarize students with how nature behaves, how to care for it and help them gain an appreciation for the God who made it. Students will spend time collecting, analyzing, experimenting and researching in the areas of genetics, kinetic energy, chemical and atomic reactions and formation of the universe.

**Outline:**

- Genetics
- Composition of an atom
- Writing Chemical formulas & Equations
- Type of Chemical Reactions
- Radioactivity
- Potential and kinetic energy
- Space and the formation of the universe

**Skills Developed:** Observing, measuring, classifying, inferring, predicting, communicating, hypothesizing, designing experiments, controlling variables, interpreting data, formulating models.

**Assignments:** Expect regular homework with a couple of different smaller projects per term. Expected homework: 1.5-2 hours per week.

**Materials required:** computer, 3-ring binder, calculator, paper, pen

**Field Trips:** Physics day at Playland (May) Prerequisites: Science 9 (SC 9)