**Grade 9 Science (SC10F) Course Description**

Grade 9 Science is a foundation course to prepare students for science courses in Grade 10 and beyond. The course is a one-credit course structured into four major units and five underlying themes, which reflect what students are expected to know, do and learn in this course. It emphasizes:

* The Nature of Science and Technology
* Science, Technology, Society, and the Environment
* Scientific and Technological Skills and Attitudes
* Essential Science Knowledge (*life science*, *physical science* and *earth & space science*)
* Unifying Concepts Between Scientific Disciplines

**Course Modules:**

Below is a breakdown of the course modules and topics:

* **Module 1 - Reproduction:**
  + Asexual Reproduction
  + Cell division
  + Sexual Reproduction
  + Human Reproduction
  + Genetics
* **Module 2 (Atoms & Elements):**
  + Lab Safety
  + Atomic Structure
  + Periodic Table
  + Elements and Compounds
  + Properties of Materials
* **Module 3 (Nature of Electricity):**
  + Static Electricity
  + Current Electricity
  + Circuits
  + Current, Voltage, Resistance, and Power
  + Applications of electricity
* **Module 4 (Exploring the Universe):**
  + History of Space Science
  + Motion and Measurement
  + The Universe
  + Space Technology

**Evaluation:**

Each learning module is assessed by approximately 5 assignments and a test. Grades are broken down as follows:

* Assignments – 40% of final grade
* Tests – 60% of final grade

**Class Schedule:**

Due dates for assignments and tests are pre-scheduled to help students stay on track with the timing of the course. To stay on pace with the course, students can expect to spend about 1 hour each day working through the course content, assignments and tests.

Each Module consists of multiple lessons that cover the content of the course. Lessons consist of content information and explanations, video lessons & tutorials, learning activities and practice exercises.

As students work through the course, they are encouraged to email their teacher if they have questions about any of the content or practice questions.

Each module takes approximately 4 weeks to complete.

**Required Materials**

Students will need the following:

* Computer with working camera/microphone
* Scientific Calculator
* Pen/Pencil
* Eraser
* Paper