



## Grade 9 Science Course Description

Grade 9 Science is a Pan-Canadian science course that aims to develop scientific literacy. Scientific literacy is an evolving combination of the science related attitudes, skills, and knowledge students need to develop inquiry, problem-solving, and decision-making abilities; to become lifelong learners; and to maintain a sense of wonder about the world around them.

**NOTE: Grade 9 Science is a core subject required for promotion to Level I.**

Grade 9 Science is composed of four units that contain core labs and core STSE sections (Science, Technology, Society, and the Environment). All schools are expected to complete these core areas and adhere to the sequence of units outlined below.

### **Unit 1: Atoms, Elements and Compounds**

Core Lab 1: *Physical and Chemical Properties*

Core Lab 2: *Observing Changes in Matter*

Core STSE 1: *Plastics and Modern Life*

### **Unit 2: Reproduction**

Core Lab 3: *Determining the Best Conditions for Yeast Reproduction*

Core Lab 4: *Comparing Mitosis and Meiosis*

Core STSE 2: *Genetic Engineering*

### **Unit 3: Electricity**

Core Lab 5: *Resistors and Ohm's Law*

Core Lab 6: *Resistors in Series and Parallel*

Core STSE 3: *Electricity Conservation: The New Trend*

### **Unit 4: Space**

Core Lab 7: *Strolling through the Solar System*

Core Lab 8: *Designing a Space Station*

Core STSE 4: *Celestial Navigation*

### **Assessment:**

Assessment in this course is governed by the *Assessment and Evaluation Policy* of the Eastern School District. This policy is located at [http://www.esdnl.ca/about/policies/esd/I\\_IL.pdf](http://www.esdnl.ca/about/policies/esd/I_IL.pdf). The regulations are located at [http://www.esdnl.ca/about/policies/esd/regulations/I\\_IL\\_1L.pdf](http://www.esdnl.ca/about/policies/esd/regulations/I_IL_1L.pdf).

### **Evaluation Plan for Grade 9 Science:**

Cumulative Unit Tests	40%	
Quizzes	10%	
Performance Assessment	30%	
Performance Assessment Project	10%	
Scientific Literacy Assessment	10%	

**\* The Unit 4 unit test and the Scientific Literacy Assessment are given together during the June exam period.**