

Grade 9 Science

Curriculum Overview:

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.

Authorized Learning Resource:

Discovering Science 9 (McGraw-Hill Ryerson, 2009)

www.discoveringscience.ca

Unit Plan:

Grade 9 Science is composed of four units that contain core labs and core STSE sections (Science, Technology, Society, and the Environment).

Unit 1: Space

Core Lab 1: *Strolling through the Solar System*

Core Lab 2: *Designing a Space Station*

Core STSE 1: *Celestial Navigation*

Unit 2: Atoms, Elements and Compounds

Core Lab 3: *Physical and Chemical Properties*

Core Lab 4: *Observing Changes in Matter*

Core STSE 2: *Plastics and Modern Life*

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: Reproduction

Core Lab 7: *Determining the Best Conditions for Yeast Reproduction*

Core Lab 8: *Comparing Mitosis and Meiosis*

Core STSE 4: *Genetic Engineering*

Assessment and Evaluation:

Unit Tests and Quizzes 40%

Performance Assessment 40%

Performance Assessment Project 10%

Scientific Literacy Assessment 10%

The Scientific Literacy Assessment is given with the Unit 4 test during the June exam.

