



Sturgeon Composite High School



SCIENCE 14 COURSE OUTLINE

PREREQUISITE: None

TEXT: Science Connect 1: McGraw-Hill Ryerson, 2002.

COURSE MATERIALS: Calculator
Three ring binder
Ruler
Graph Paper

COURSE CONTENT: Science 14 consists of four units of study:

UNIT A: INVESTIGATING PROPERTIES OF MATTER (25%)

1. Understanding Matter
2. Pure Substances: Elements and Compounds.
3. Mixtures and Their Uses.
4. Solutions and the Environment.

UNIT B: ENERGY TRANSFER TECHNOLOGIES (25%)

1. Heat and heat transfer.
2. Controlling Heat Transfer.
3. Simple Machines and Energy Transfer

UNIT C: FROM LIFE TO LIFESTYLE (25%)

1. Structure and Function of Plant and Animal Cells.
2. Life Functions Common to Living Things
3. Food for Life.
4. Maintaining Homeostasis

UNIT D: MATTER AND ENERGY IN THE BIOSPHERE (25%)

1. The Web of Life
2. Populations
3. Ecosystems and Biomes
4. Protecting the Environment

EVALUATION: The final mark in Science 14 will be based upon the following:

TERM WORK: 70%

1. **EXAMS (40%)**
- chapter/unit exams
2. **ASSIGNMENTS/LABS/QUIZZES (30%)**

FINAL EXAM: 30%

BEHAVIORAL EXPECTATIONS: Respectful behaviours that we are all accountable for are expected to be evident.