



# Sturgeon Composite High School

## **SCIENCE 10 - 4 COURSE OUTLINE**

*Instructor: Mrs. S. Reed  
Fall 2018-19*



**PREREQUISITE:** None

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

**COURSE MATERIALS:** Calculator  
Three ring binder  
Ruler  
Graph Paper

**COURSE CONTENT:** Science 10-4 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. **UNIT EXAMS and QUIZZES— open book (40%)**
2. **ASSIGNMENTS (30%)**

**FINAL EXAM – open book:** 30%

## **BEHAVIORAL EXPECTATIONS:**

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

1. To perform well in any class, students must be punctual and present at every class and consistently do their work. Lateness is not tolerated.
2. All students must have their own writing utensils, calculator, ruler, eraser, etc.
3. Students will be given at least a week's notification for most quizzes and two weeks for chapter exams. .
4. If any student is absent, it is their responsibility to get caught up on any material covered in class, which they missed, during lunch hour.

Parents will be notified if there are any concerns regarding student work or behaviour. I believe it is crucial that parents are aware of what is happening with their child while in my classroom.

It is expected that students will be reviewing material and completing all work assignments. Taking down notes, doing daily work and any homework that may be assigned, will greatly improve the mark a student will receive.

***+Cell phones are to be turned off while in class until indicated by the teacher.***

### ***Labs:***

The use of labs for this course helps encourage life long learning and promotes a greater understanding of science concepts covered in class. Participating in labs also requires behaviour that is safe and respectful of others and the equipment we will be using. **Inappropriate behaviour during labs will NOT be tolerated**, as an unsafe environment cannot occur. Students will be responsible and accountable for monitoring themselves and how they conduct themselves during each lab.

### ***Extra Help:***

I am available for additional help or instruction during most noon hours. Students who would like extra help need to ensure that they are attending classes regularly and be willing to work in order for this to be beneficial. Students should speak to me throughout the term if you find a time when additional instruction and support would help you.