

# Science 8 Course Outline

## General Learning Outcomes

This Science course will provide each student with opportunities to:

- A) develop positive science attitudes
- B) develop the skills and processes of science
- C) increase his or her scientific knowledge, and;
- D) develop creative, critical and abstract thinking abilities.

## Course Outline

During this course, the following units and chapters will be covered. You may refer to pages iv to ix in your copy of BCScience 8 for the corresponding page numbers of these chapters. Please note that minor additions and/or deletions may be made during the course and that the order in which the content is presented may vary. Individual student participation in some lab activities may not be possible due to safety concerns as a result of overcrowding in Science labs.

### Processes of Science

Science Skills (p 474) These principles will be ongoing throughout all the chapters studied.

### Life Science: Cells and Systems

- Ch 1 The Cell
- Ch 2 Human Body Systems
- Ch 3 The Immune System

### Physical Science: Optics

- Ch 4 Properties of Light
- Ch 5 Optical Systems
- Ch 6 Human vision

### Physical Science: Fluids and Dynamics

- Ch 7 Kinetic Molecular Theory
- Ch 8 Behaviour of Fluids
- Ch 9 Fluid Systems

### Earth and Space Science: Water Systems on Earth

- Ch 10 The Water Cycle
- Ch 11 The Oceans
- Ch 12 Water Quantity and Quality

## Course Evaluation

There are two reporting periods during this course, each of which has a value of 40%. A final exam will also be written, worth the remaining 20%. Each of the two report card marks will be based upon the following criteria:

### 1. Tests: 50%

In Science 8 this year, the test mark will not solely be based on the formal rote/memory exam format which has been used in the past. In this course we will be applying the principles of "Authentic Evaluation" in which the students have the opportunity to demonstrate their learning in a variety of ways. The marks that go into this part of the course evaluation may be from posters, projects, oral and written reports, lab procedures, and research, as well as some standard testing and vocabulary quizzes.

### 2. Activities: 50%

Throughout the course, many lab activities will be completed, following the principles learned in the first section (Science Skills). A neatly kept notebook, with section dividers, and tables of contents for each unit, will be a part of the mark for this section of the course evaluation. As well, homework and other short assignments such as notes from videos will be included in this part of the student's mark.

## Expectations

Each student is expected to show up to every class on time with all of the necessary learning materials and a positive attitude. It is recommended that daily review be done in addition to any assigned homework. Finally, it is each student's responsibility to find out what activities were missed when absent from class. Let your teacher know well in advance of any planned family activities, to avoid lost credits. Responsibility is the key word!

## Materials Required

HB pencils, eraser, pens, ruler, calculator, geometry set, and coloured pencils.

I have read the above course guidelines and understood the requirements and expectations of the course:

**Student's signature:** \_\_\_\_\_

**Parent's/Guardian's signature:** \_\_\_\_\_