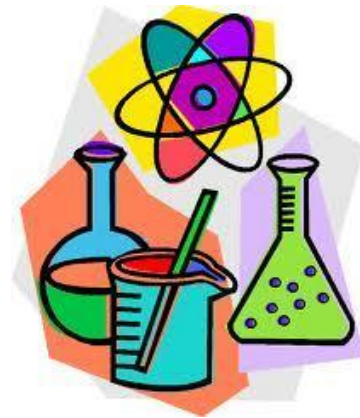


# SCIENCE 7 2020-2021 Course Outline



**TEACHER:** Mrs. T. Szmata

**TEXTBOOK:** Gue, et al., SCIENCE FOCUS 7, McGraw-Hill Ryerson, 2001.

## **COURSE OBJECTIVES:**

The major course objectives of the Science 7 curriculum are:

1. To encourage students to develop a critical sense of wonder and curiosity about scientific and technological endeavors.
2. To enable students to use science and technology to acquire new knowledge and solve problems, so that they may improve the quality of their own lives and the lives of others.
3. To prepare students to critically address science related societal, economic, ethical, and environmental issues.
4. To provide students with a foundation in science that creates opportunities for them to pursue progressively higher levels of study, prepares them for science related occupations, and engages them in science related hobbies appropriate to their interests and abilities.
5. To enable students, of varying aptitudes and interests, to develop a knowledge of the wide spectrum of careers related to science, technology and the environment.

## **METHODS OF INSTRUCTION:**

Lecture, discussion, and readings will be used to present concepts.

Exercises, laboratory work, demonstrations, and projects will be used to reinforce and expand the concepts.

## **MATERIALS:**

It is recommended that you keep everything in a 2" or 3" three ring binder. You may also need a calculator, pencil crayons, markers, a ruler and other materials throughout the school year.

## **CLASSROOM EXPECTATIONS:**

Please abide by the following classroom expectations:

1. Regular attendance.
2. At the start of class, be at your desk, ready to work, with all your materials at hand.
3. Washroom breaks are permitted. However, only one student is allowed to leave the classroom at a time.
4. Only water is permitted in the Science Lab.
5. Treat others, their ideas and possessions with respect.
6. Electronic Device Policy:
  - o The best place for your electronic device is at HOME or in your LOCKED locker. However, if you choose to bring it to class, electronics are to be turned off or to be silent and left in the appropriate place provided by your teacher.
  - o Appropriate use of electronics is encouraged as they will be used to supplement regular classroom instruction. However, they may only be used with permission from your teacher.
  - o Electronic devices will not be allowed following the completion of an assignment, quiz or test. Alternative activities will be provided in the case that you finish your work early.

## **EVALUATION:**

25% Assignments, Activities, and Laboratory Exercises

25% Quizzes

25% Tests

25% Final Examination

Keep track of your marks as they will be posted online regularly. Our online marks system is used as a tool for teachers to communicate with students and parents about such things as attendance, marks, discipline, schedules, assignments, events, and fees.

## **ASSIGNMENT POLICY:**

ALL Assignments are given a due date. Please do not be late. If an assignment is not completed on time you must spend a lunch hour finishing it with me.

Notes and assignments must be completed in the event of an absence. You can find the extra materials in the "While You Were Away" folders on the side table.

## **QUIZ POLICY:**

A small quiz will be given approximately once a week covering the material from the lessons throughout that week. Quizzes may consist of matching, true and false, multiple choice, labeling or written questions.

## **EXAM POLICY:**

A large unit exam will be given at the end of each unit covering all the material learned throughout the unit. Exams may consist of matching, true and false, multiple choice, labeling or written questions.

## **SAFETY:**

To ensure the safety of others, students misbehaving or not following directions given in the laboratory will be suspended from the laboratory and given an alternative assignment.

## **EXTRA HELP:**

I would be pleased to offer extra assistance – please contact me to arrange a suitable time either before school, at lunch, or after school.

## **COURSE OUTLINE:**

### **Unit**

1. Interactions and Ecosystems  
(8 weeks)

### **Topics**

Interactions within Ecosystems  
Impacts on Ecosystems  
Environmental Choices  
How Organisms Interact  
Cycles in the Environment  
Succession and Change in Ecosystems  
Environmental Monitoring



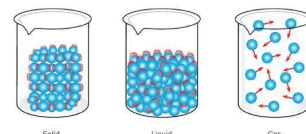
2. Plants for Food and Fiber  
(8 weeks)

People and Plants  
Structure and Adaptation  
Plant Reproduction and Breeding  
Meeting the Need for Food and Fiber  
Sustaining the Soil  
Pests and Pest Control



3. Heat and Temperature  
(8 weeks)

Using Energy from Heat  
Measuring Temperature  
The Particle Model, Temperature and Thermal Energy  
Expansion and Contraction  
The Particle Model and Changes of State  
Transferring Energy  
Conserving our Fossil Fuels



4. Structures and Forces  
(7 weeks)

Types of Structures  
Describing Structures  
Mass and Forces  
Forces, Loads and Stresses  
How Structures Fail  
Designing with Forces  
Stables Structures



5. Planet Earth  
(8 weeks)

Minerals  
Rocks and the Rock Cycle  
Erosion  
The Moving Crust  
Earthquakes  
Volcanoes  
Mountains  
Fossils  
Geological Time  
Fossil Fuels

