

## **Science 10F**

2018-2019 – Semester 1 & 2

**Teacher:** Ms. Spring

**Contact Information:** [aspring@trsd.ca](mailto:aspring@trsd.ca)

Class Website: [www.springadventures.weebly.com](http://www.springadventures.weebly.com)

### **Course Overview**

The grade 9 course is designed to give students a small taste of four disciplines of science; chemistry, physics, earth science, and biology. Next year, in grade 10, you will be exposed to one more topic in each of these disciplines. Once you reach grade 11 you will be given the choice to focus on one or more of these disciplines. The next two years should give you an idea about what areas interest you, and which direction you want to take! The following are the topics we will be covering during this course:

### **Chemistry: Atoms & Elements**

In this unit we will build on the particle theory of matter studied in previous grades. We will expand that knowledge to include what matter is made of, focusing on the atomic model and periodic table. You will become familiar with the many elements and compounds that make up our world, as well as the many chemical changes that occur every day.

### **Earth Science: Exploring the Universe**

In this unit we will look to the skies! We will do some basic astronomy where we look at various celestial objects. We will also look at how our universe is organized and its various components. Finally, we will examine Canada's role in international space exploration.

### **Biology: Reproduction**

Reproduction is an essential biological mechanism for the continuity and diversity of species. This unit will give students an opportunity to compare asexual and sexual methods of reproduction. You will learn how the human reproductive system functions and will be able to describe the major stages of human development from conception to birth. By the end of the unit you will recognize that the cell contains genetic information and is responsible for the transmission of traits from one generation to the next.

### **Physics: The Nature of Electricity**

This unit will involve learning about electricity works, both electrostatic phenomena as well as in circuits. We will also examine the costs of electricity, as well as the safety and efficiency of electrical appliances. Finally, we will investigate the sustainability of hydroelectric power, a major source of electricity in Manitoba.

### **Classroom Rules & Expectations:**

**All members** of the classroom will...

1. Commit to making the classroom a safe space. Therefore:
  - a. All members of the classroom will **be respectful of the opinions, ideas, culture**, and overall person of other members of the classroom, whether they agree with them or not.
2. **Respect their classmates' right to learn & work within a school environment.** Therefore:
  - a. There will be no talking during instruction, and no distracting behavior during work time.

3. **Use technology in a relevant and respectful manner.**
  - a. **CELL PHONES-** Students will check their phones into the cell phone hotel when they enter the classroom and will check their phone out at the end of class. If the cell phone is checked out of the hotel without permission during class or has failed to even check into the hotel, the device will be handed into Ms.Spring for the remainder of the school day. If there is a second offense, the device will be handed into the office overnight. Each additional offense after that will add a night to the devices sleepover in the office. (3<sup>rd</sup> offense= 2 nights in the office, 4<sup>th</sup> offense= 3 nights in the office etc)
4. **Come prepared for class** by bringing any tools and materials necessary for class.

### **Assessment Guidelines:**

- **Assignments** are due at the beginning of class on the predetermined due date.
  - If this is a problem, you are expected to discuss this with me ahead of time.
- **Late assignments** will receive a zero until the assignment is handed in.
  - If assignments are continually handed in late, a parent-teacher-student conference will occur.
  - Once a unit of study has been completed, you may no longer hand in assignments for that unit.
- **Plagiarized assignments** will receive a zero until the assignment is redone and resubmitted, and will warrant a serious discussion with Ms.Spring, your parents, and possibly administration.
- **If you miss a class** or come in late, it is your responsibility to find out what you missed and access the materials.

### **Evaluation**

Daily Assignments/Tests/Projects	70%
Final Exam	30%