

Science 9 Course Outline
Bridgewater Jr./Sr. High School
Bridgewater, NS
Mr. C. MacPhee

Text: SciencePower 9

Materials:

1.) Science binder

Your science binder should have the following sections separated with dividers

- Notes & Assignments
- Labs
- Texts and Quizzes

2.) Pencils, pens, coloured pencils

3.) Science textbook

4.) Any required homework

Topics of Study:

REPRODUCTION (BIOLOGY) Chapters 1-4:

In this unit, we take a close look at cellular processes, asexual and sexual reproduction, and genetic changes. Students will investigate cell division, compare the processes of asexual and sexual reproduction, and investigate current issues such as cloning, gene therapy and genetic manipulation.

ATOMS AND ELEMENTS (CHEMISTRY) Chapters 5-8:

In this unit, we take a close look at matter and its properties. Not only will we explore the nature of matter, but we will become closely acquainted with the periodic table and its elements, models of atomic structure, and how different elements combine to give us everyday materials.

CHARACTERISTICS OF ELECTRICITY (PHYSICS) Chapters 9-12:

This unit will encompass both the history of electricity, and its everyday applications. We will study how charges in electricity react when in contact, and how electricity is used practically. Finally, we will observe the effect (both good and bad) that electricity has on the environment. Students will have the opportunity for many “hands on” experiments in this unit, as electricity is all around us!

SPACE EXPLORATION (SPACE) Chapters 13-16:

In addition to learning about space and what is in it, we will look at how we have come to know and understand the solar system and the rest of the universe.

Evaluation: (this breakdown may be subject to change)

- In-Class Assignments and Participation 30%
- Labs 20%
- Tests and Quizzes 20%
- Projects and Presentations 15%
- Science Blog 15%

Classroom Routines:

Regular attendance and consistent study are two factors that contribute greatly to success in school. Attendance is expected. However, if you must miss a class, you are required to make up all missed work.

Extra help is available for all students either at lunch or after school should you feel it is needed. I may suggest extra help if you are finding course content or pace to be challenging.

NOTE: There are four keys to being successful in this course and classroom.

1. Be a hard worker, complete all assignments, quizzes, tests, and especially homework.
2. Be co-operative, be a team player.
3. Be willing to take chances; don't be afraid to be wrong. Rather learn from your mistakes.
4. Be respectful of your classmates, your teacher, and most importantly yourself.

Technology in the Classroom:

This year at Bridgewater High we will be moving to open wireless access for students. Certain websites like Facebook will continue to be blocked, but students will have access during the day via their handheld devices or laptops.

I will be using a website → <http://www.mistermac.weebly.com> to host all of my courses this year. This site will have a great deal of information for parents and students throughout the course.

Parents/Guardians:

Your support is instrumental in the educational success of your student. Please do not hesitate to contact me with any questions or concerns. It is my hope that the continued communication and support of all parties, will result in the best possible outcomes regarding your child's education.

Please sign and return this course outline by **Friday, September 14th, 2012** as an indication that you have read and discussed its contents with your son/daughter.

Signature of Parent/Guardian

Email

Date