**Science 10DP – Semester Two 2013**

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This course is designed to teach the skills, attitudes and knowledge required to study science at the IB level, as well as to help develop scientifically literate citizens and consumers. In Pre-IB Science 10, students must be able to work independently and demonstrate strong study and experimentation skills. Collaborative learning experiences are also integral to Pre-IB Science 10 to prepare students for their Group 4 project should they enter the International Baccalaureate Diploma Program. Pre-IB Science 10 covers many of the outcomes of the current Atlantic Canada Science 10 curriculum. However, a number of the existing outcomes have been extended and new ones have been created. Students will be encouraged to communicate scientific ideas and arguments accurately and clearly. Practical experiences will encourage analytical, critical and creative thinking to solve problems by research and experimentation.

**Science 10DP will cover the topics listed below:**

|  |  |
| --- | --- |
| ***Environmental Sciences***  Earth's Energy Budget  Movement of energy through the biotic environment  How energy interacts with water, land and air  Homeostasis in the environment, sustainability of  ecosystems  Pond Study and Microscopic Study of Pond Water | |
| ***Introduction to Matter and Chemical Change***  WHMIS and laboratory safety  Matter  Nomenclature  Chemical equations  Rates of chemical reactions | ***Motion***  Velocity: average and instantaneous  Acceleration: average and instantaneous  Relationships among acceleration, displacement, velocity and time.  National and international aspects of science and technology |

**Evaluation *(tentative*):**

**Classwork evaluation: 70% Final Exam:** **30%**

Environmental Sciences 30%

Motion 30%

Matter and Chemical Change 30%

Project 10%

*Each unit will include both formative and summative evaluations which may include tests, quizzes, assignments, formal and informal labs, portfolios, projects, presentations and discussions.*

**Materials Required:**

*Science 10 textbook,*  binder, looseleaf, graph paper, calculator, pens/pencils/eraser, ruler, school internet account

Be on time and prepared! Participate in class!!

Respect the expectations and guidelines outlined in the student handbook

**Recipe for Success:**

Complete assignments on time and independently! (or accept consequences gracefully) Keep informed by checking *PowerSchool* and the class Moodle site!

Communicate with my teacher – bring notes when I am late or absent! Get help when I need it!

Be respectful.

Review subject matter regularly and attempt ALL homework to the best of my ability.

Listen attentively - turn off music and cell phones!



## ASSIGNMENTS, LABS AND PROJECTS

* + Due at the beginning of the class the day they are due
  + If you are absent, the assignment is due the day you return to school unless other arrangements have been made with the teacher.
  + No late assignments will be accepted after the teacher has assessed and returned the work to the other students.
  + Assignments must be written by students in their own words, even when the work is done in a group; copying will result in all parties receiving no value for the assignment
  + Sources must be referenced using APA formatting

## TEST AND QUIZZES

* Makeup tests and quizzes may be permitted provided a student absence is excused.
* Missed tests are excused with a note from home, an unexcused absence will result in a mark of 0%
* Students will be given one opportunity to make up a missed test/quiz usually on the first day of their return to class.

**Dear Parent/Guardian and Students:**

It is very important for students to regularly review their notes and to complete and pass in all assignments and labs. Students should plan on reviewing work covered in class on a daily basis. Many students do the work in class and then fail to do the necessary follow up work at home to reinforce the concepts covered in class. Students should rely on PowerSchool and the class Moodle site if material is missed due to illness. Students who have difficulty, should get help right away either from their teacher or peer tutoring.

I can be reached at 435-8452 ext 4101216 and via email. In addition, access *Power School* online to keep track of student progress and attendance. Please don’t hesitate to contact me if you need help of any kind and I look forward to meeting you on curriculum night. Have a successful semester!

Tara Cormier

Science Department

Prince Andrew High School

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_