



Dartmouth High School
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Science 10	Teacher : Ms. R. Pennell
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Parents and students please refer to the HRSB Assessment, Evaluation, and Communication of Student Learning Policy accessible at www.hrsb.ca	
Science 10 Course Introduction	
Science 10 introduces students to four units Sustainability of Ecosystems, Chemical Reactions, Motion and Weather Dynamics. It is meant to be an introduction to the scientific method. It serves to prepare students for future studies in Scientific disciplines.	

Evaluation When determining a students' final grade: <ul style="list-style-type: none">✓ No single assessment tool (i.e. presentations, labs, demonstrations, portfolios, debates, written tests/quizzes) will account for more than half of the value of each Gradebook category✓ Learning trends over time will be considered, more recent student work and the teacher's professional judgment✓ Students will participate in a final cumulative assessment opportunity that allows them to demonstrate an appropriate range of the learning outcomes and process skills involved in the course. This final assessment, whether a written examination or alternative assessment opportunity, will be worth no more than 20%.
Students in Science 10 will explore the following units and topics: Unit 1: Sustainability of Ecosystems (20%) <ul style="list-style-type: none">• Scientific method• food chain/food web and energy flow• Trophic cascading• invasive species (short term stress and long term change)• population dynamics• the carbon cycle• the nitrogen cycle• the role of soil• resource management and sustainability Unit 2: Chemical Reactions (20%) <ul style="list-style-type: none">• IUPAC nomenclature• Naming Ionic and Molecular Compounds• Conservation of Mass• Balancing chemical equations• Acids and Bases-classifying and naming• Neutralization Reactions Unit 3: Motion (20%) <ul style="list-style-type: none">• Vector and scalar quantities• Instantaneous velocity vs. average velocity• Calculating displacement, velocity and time• Reading position-time graphs• Differentiating between uniform motion and acceleration Unit 4: Weather Dynamics (20%) <ul style="list-style-type: none">• Methods of Heat Transfer (Conduction, Convection, and Radiation)• Waters Role in Our World (Earth's constant temperature)• Layers of the Atmosphere• Air Masses and Fronts• Water Cycle and Cloud Formation• The Changing Seasons• Weather forecasting and Instruments• Canadian contributions to weather technology

Creating Opportunities for Success
Dartmouth High School encourages respect for self, peers, teacher, and the environment. The Provincial School Code of Conduct outlines positive behaviors expected and possible consequences for inappropriate behaviors.
Assessment Practice
Students will be provided with multiple opportunities to demonstrate their progress toward achievement of outcomes.

- ✓ **Assessment for Learning/Formative Assessment...** the ongoing process of gathering and interpreting evidence about student learning for the purpose of determining where students are in their learning, where they need to go, and how best to get there; instructional strategy that takes place while the student is still learning and serves to promote learning
- ✓ **Assessment of Learning/Summative Assessment...** process of analyzing, reflecting upon, and summarizing assessment information and making a judgment and/or decision based upon the information gathered.
- ✓ Student learning is assessed through observations, conversations and products, using assessment tools like checklists, assignments, labs, projects, presentations, tests and exams.

Procedural Expectations

Students are responsible for:

- ✓ Seeking assistance with assignments when required;
- ✓ Requesting an extension for assignments in a timely manner when required;
- ✓ Completing assignments by specified due dates so that teachers can provide timely feedback;
- ✓ Responding to feedback provided during the learning process.
- ✓ In the event that a due date for an assignment is missed, it will be at the discretion of the teacher and principal to extend the deadline.
- ✓ Students who do not adhere to the extended deadline will have missed that opportunity to demonstrate achievement towards the outcomes addressed in that assignment.

- ✓ **Plan** and organize so that deadlines can be respected
 - Check PowerSchool regularly!
 - Under extenuating circumstances, request extensions in advance
 - Late assignments will not be accepted if already assessed and returned
- ✓ Students are expected to **complete all assignments** including those completed when a student is absent. In some circumstances, students will be required to complete an alternate assignment which addresses the same outcomes in a different way. It is the students' responsibility to make arrangements for missed work upon their return to school.
- ✓ **Exam exemptions** can be earned based on attendance, punctuality and successful completion of major assessments including all tests, projects and formal labs.
- ✓ Students who legitimately **miss a major test** will be given one opportunity outside of class time to rewrite if the reason for the absence is communicated with a note, e-mail or phone call directly to the teacher.

Communication Tools

Dartmouth High will use a variety of methods to communicate student achievement throughout the school year.

- ✓ **PowerSchool** - Students and parents are encouraged to access PowerSchool on a regular basis to track attendance and student progress. It will be updated regularly but when student work is submitted late, an inaccurate representation of student progress is portrayed.

If an assignment is missing (m) it has not been submitted yet, a late(l) assignment has been submitted and a mark of zero will be assigned when the student fails to submit the assignment after multiple opportunities have been provided.
- ✓ **School Messenger** - electronic messages will report student absences and lates
- ✓ **Curriculum Night, Parent-Teacher Interviews, Mid Term Reports, Final Report Cards**
- ✓ students and parents are encouraged to e-mail and/or make contact by phone with any concerns or questions

Accessing Help

To be successful in Science 10...

- ✓ **Attend** regularly and be on time
- ✓ Be an **active learner**
 - Read about the topic in advance, ask questions, use multiple resources to fully explore the material, focus your attention on the material and avoid the distractions of texting, socializing and listening to music
- ✓ **Study** regularly and attempt all homework independently
- ✓ **Communicate** with your teacher and seek extra help when necessary

Equipment Needs

Access to Google Classroom, binder, loose leaf, pens/pencils/eraser, ruler, school internet account, PowerSchool account.