



## Science 10

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### Introduction

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This course introduces various aspects of biology, chemistry, physics and earth science. Specifically: the significance of natural phenomena and human factors within ecosystems; the atom, atomic bonding, chemical reactions and a survey of the periodic table; motion - what it is, how it is represented, measured and reported; radioactivity; energy transfer within natural systems and plate tectonics.

A variety of learning strategies are utilized within the course structure to allow for a variety of learning styles and to promote the acquisition of a 21st century skill set.

### Topics in Science 10

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- Biomes and Ecosystems
- Organism interactions
- Nutrient cycling
- Atomic structure
- Patterns in the Periodic Table
- Chemical formulas, Chemical Equations and Reactions
- Radioactivity
- Concepts in motion – velocity and acceleration and graphing
- Heat and thermal energy
- Climate and climate change
- Plate tectonics

### Assessment

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Grades will be calculated according to the following weightings.

Assignments	40%
Labs	20%
Unit Tests	40%

Mastery is encouraged. Students who wish to improve their work and resubmit are to invited to discuss their options with their teacher.

When the authenticity of student work is in question, the teacher reserves the right to base final grades on teacher supervised assignments and assessments.

### **Activation:**

In order to be activated in Science 10 you must complete at minimum 7 of the 10 assignments for Unit 1.

### **Resources**

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*Blackboard Learn 9* Website: <http://sd68.blackboard.com>  
**login:** 1lastname1firstinitial  
**psswd:** 1firstname

*Prescribed Learning Outcomes:*

[https://www.bced.gov.bc.ca/irp/course.php?lang=en&subject=Sciences&course=Science\\_Grade\\_10&year=2008](https://www.bced.gov.bc.ca/irp/course.php?lang=en&subject=Sciences&course=Science_Grade_10&year=2008)

*Jupiter Grades:* Mark update and assignment feedback at  
<https://jupitergrades.com>

*School Website:* <https://island-connected.sd68.bc.ca>

### **Attendance**

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Please be aware that Island Connect K -12 does not have a general attendance requirement. However, it is in your best interests to make a habit of checking in with Kirsten Doucette (your teacher) at least once a week – face to face, by email, or phone. Past learners have stated that such contact promotes engagement with the course materials and serves to motivate them to complete the work in a timely fashion.

### **Completion Timeline Expectations**

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Successful learners typically finish within four months of initial enrollment in this course. COMMIT to achieving your goals! However, you can extend this timeline to fit your stlye.

### **Withdrawal**

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Students who have been inactive for an extended period (more than 8 weeks), may be withdrawn from Science 10. Students must contact their teacher if they expect to be inactive.