



Physics 12

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Physics is the study of the interaction of matter, force, and energy. It is the most mathematical of the sciences studied in Secondary School and good math skills will be an asset in this course.

In this course you will study the following specific topics:

- Vectors
- Kinematics (including projectile motion and circular motion)
- Dynamics (the study of forces, including electrostatics and magnetism)
- Electromagnetic Induction
- Energy
- Momentum

The course consists of video lessons and online virtual labs (no textbook is required for this course). Students will have the opportunity to apply the skills they learn in the lessons in online practice questions, then for grading will complete written Unit Assignments and Module Tests. The tests are online but must be written in a supervised setting.

Supervised test settings include:

- Our main school site, 4355 Jingle Pot Road, Nanaimo
- Island Connect Ed Support Rooms at select Secondary Schools in School District 68
- Outside of the Nanaimo/Ladysmith area, arrangements can be made for tests to be supervised by a local teacher.

Assessment:

- Quizzes: 10%
- Unit Assignments: 35%
- Labs: 20%
- Module Tests: 35%

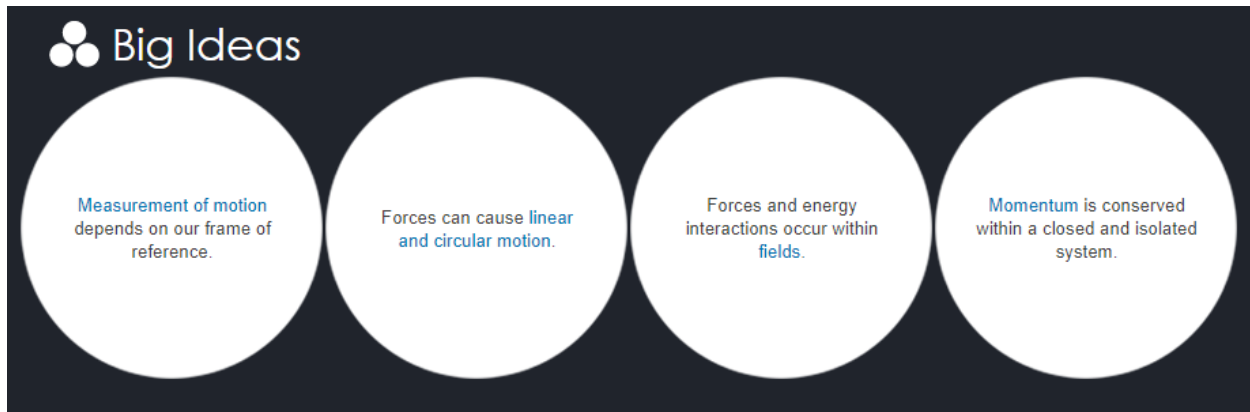
General Timeline:

Island Connect Ed is not semester based. Students may start this course at any time, and can proceed through the course at their own pace. More specifically, there is a general expectation

that the first Chapter Assignment and Chapter 1 Labs are submitted within three weeks of registering for the course and that the course will be completed within one year from the registration date. Exceptions to the general expectations will be considered on an individual basis.

It will help you to set goals and make a plan to successfully complete this course within a reasonable amount of time. Moving through the course too quickly or too slowly will both affect how successful you will be. Make a realistic work schedule for yourself and stick to it!

The content of this course, while important, is meant to be a means to help students explore the Big Ideas of this course:



For a more detailed look at the Learning Standards for this course, visit the following BC Ministry of Education website:

<https://curriculum.gov.bc.ca/curriculum/science/12/physics>

For more information about this course, please contact:

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