

# Physics 11

**Texts:** PhysicsSource 11, Pearson, Copyright 2011

## Course Content Evaluation:

### course mark

60% Tests, Quizzes, and Projects

40% Labs, Assignments, and Notebooks

### final mark

80% of course mark + 20% final examination mark

## What is Physics?

Science is divided into the life sciences and the physical sciences. The life sciences branch into such areas as biology, zoology, and botany. The physical sciences branch into such areas as geology, astronomy, chemistry, and physics.

But **physics** is more than just a part of the physical sciences. It is the basic science. It is about the *nature* of things such as motion, forces, energy, matter, heat, sound, light, and the insides of atoms. While chemistry is about how matter is put together, how atoms combine to form molecules, and how molecules combine to make up the many kinds of matter around us. Biology is more complex and involves matter that is alive. The concepts of physics are needed to understand these other more complicated sciences. That is why it is the most basic.

Thus we can say that understanding science involves an understanding of physics.

## What parts of physics will we be studying?

1. Kinematics -the study of motion without regard to the cause of motion
2. Dynamics -the study of motion with regard to the cause of motion (forces)
3. Energy -the study of motion from an energy perspective
4. Special Relativity -d
5. Optics -the study of the path light follows
6. DC circuits

*Also see:* <https://curriculum.gov.bc.ca/curriculum/>

## Big Ideas for Physics 11

An object's motion can be predicted, analyzed, and described.	Forces influence the motion of an object.	Energy is found in different forms, is conserved, and has the ability to do work.	Mechanical waves transfer energy but not matter.
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## Required material:

2-inch binder with lined paper and dividers  
scientific calculator (assorted pens, pencils, erasers, etc.)

**Classroom Expectations:**

1. Bring all needed materials to class.
2. Be in your seat and ready to begin when the bell rings.
3. Respect and be polite to all people.
4. Listen and stay seated when someone is talking.
5. Respect other people's property.
6. Follow all school rules (including cell phone guidance).

**Rewrites:**

Students may rewrite chapter tests. The rewrite **will** replace the mark received on the original test. Rewrites will be done at lunchtime unless otherwise arranged.

To rewrites students must:

- 1) Indicate a wish to rewrite a test by registering with the teacher.
- 2) Participate in a tutorial prior to the rewrite.
- 3) Do the re-writes on the date set in class.
- 4) Demonstrate satisfactory effort during class.

**Extra Help/Missed work:**

Extra support is accessible through scheduled appointments during lunchtime and, if required, after school hours. Missed work can be submitted late if there is a good reason such as sickness etc.

**Core Competencies:**

Students will be working on the concepts encompassed by the core competencies as represented by the triangles shown below. In part this will entail ongoing self-reflection and goal setting.



**Teacher Email:** [jbradsha@sd83.bc.ca](mailto:jbradsha@sd83.bc.ca)

**Teacher Website:** <https://pvs.sd83.bc.ca/bradshaw/>

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I have read the above document:

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(Student Signature)

Print Name:

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(Parent signature)

Email  
Address: