



# SCIENCE 9



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## Description:

In Science 9, students will learn the basics of biology, chemistry, physics, and earth science including:

- How and why do cells divide?
- How does the electron arrangement of atoms affect their chemical nature?
- Electricity is the flowing of electrons?
- How does matter cycle and energy flow through the four interconnected spheres?

## The BIG Ideas are:

Cells are derived from cells.

The electron arrangement of atoms impacts their chemical nature.

Electric current is the flow of electric charge.

The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.

There are four modules in Science 9:

- Module 1 - Biology
- Module 2 - Chemistry
- Module 3 - Physics
- Module 4 - Earth Science

## Required resources

Access to a computer and Internet access is required as there are various readings, videos, animations, simulations and links in the course. All of the materials are online and there is NO textbook.

## Assessment Strategies / Performance Standards

There are FOUR module tests (worth 10% each), FOUR Module quizzes (worth 5% each), FOUR Module Projects/Reviews (worth 5% each) in this course. There are also review quizzes and activities in each module (worth 5%). The tests, quizzes, reviews, and projects are submitted in the course.

## How long will this course take?

This is a 4-credit course and students should expect to spend 100 – 120 hours to complete it.

Students who are taking this online course instead of a classroom course in a semester (e.g. three courses in class and one online) should expect to complete the course in the 20-week semester. Students who are taking the course in **addition** to taking FOUR classroom courses in a semester (e.g. four courses in class and one online) are expected, to complete their course within a 10-month period.

## Need help?

You may get help online in the course, or by email or by video chat (MS Teams).