



SCIENCE 10



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Description:

In Science 10, students will learn the basics of genetics, chemistry, physics and the formation of the universe including:

- How do mutations occur?
- In what ways do atoms rearrange during reactions?
- How do energy transformations affect the environment?
- What evidence supports the big bang theory?

The BIG Ideas are:

DNA is the basis for the diversity of living things.

Energy change is required as atoms rearrange in chemical processes.

The formation of the universe can be explained by the big bang theory.

Energy is conserved, and its transformation can affect living things and the environment.

There are four modules in Science 10:

- Module 1 - Biology
- Module 2 - Chemistry
- Module 3 - The Universe
- Module 4 - Physics

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 12% each for a total of 48%), FOUR Module quizzes (worth 5% each for a total of 20%), FOUR Module Projects/Reviews (worth 5% for a total of 20%) in this course. There are also review quizzes in each module (worth 3% for a total of 12%). The tests, quizzes, reviews, and projects are submitted online 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 Quarterly Semester (e.g. one course in class and one online) should expect to complete the course in the 10-week Quarterly Semester.

Students who are taking the course in **addition** to taking TWO classroom courses in a Quarterly Semester (e.g. two courses in class and one online) are expected to complete their course within a 5-month period.

Need help?

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