



Science 9



ISLAND VIEW HIGH SCHOOL

September 2024 - June 2025

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Welcome to Science 9!

In Science 9, students will be exposed to four major units setting the foundation for the strands of future science courses. Science education focuses on the development of scientific culture, an evolving set of attitudes, science-related skills, where students need to develop the ability to question, problem solve and make decisions; to become learners for life; and maintain a sense of wonder at the world around them.

To develop scientific knowledge, students will be provided with diverse learning experiences that provide opportunities to explore, analyze, evaluate, synthesize, appreciate and understand the interactions between science, technology, society and the environment that will affect their personal lives, their careers, and their future.

In this course we will explore the mystery of DNA, the structure of the atom and the periodic table, the world of space and electricity.

Units of Study

1) Reproduction & Genetics (30%)

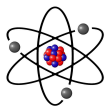
- Cell Division
- Asexual & sexual reproduction
- DNA & Genetics

3) Characteristics of Electricity (25%)

- Types of Circuits
- Power, Watts, Joules, Resistance
- Energy Conservation

2) Atoms & Elements (30%)

- Periodic Table
- Atoms
- Chemical Reactions



4) Space & Discovering the Universe (15%)

- Theories of the Origin of the Universe
- Elements of Space
- Space Exploration



✓ 90% of the final grade will consist of semester work such as class activities, quizzes, concept checks, in class assignments and tests from each unit of study.

✓ 10% of the final grade will be from the final cumulative exam in June.

Assessment and Evaluation

The purpose of an assessment is to capture where the student is in relation to the learning outcomes. This will be completed through classroom activities, projects, lab explorations, concept checks, quizzes, in-class assignments and unit tests. Students will have multiple opportunities to meet or exceed the outcomes and effectively demonstrate their understanding of course material. It is important to be well organized and do your best every class.

Due Dates and Late Work

Students are responsible for respecting due dates so that teachers can provide timely feedback to help students continue to make progress and grow as learners. If the student cannot meet a deadline, they should speak with the teacher about a possible extension before the deadline. If the student does not meet the new deadline as discussed and agreed upon, the student will have missed the opportunity to demonstrate achievement in the results and the student's mark will be affected. It is the students' responsibility to make arrangements with the teacher to complete all missed work in a timely manner and request support if required.

Resources & Communication

Students are encouraged to visit Google classroom where they will find our textbook, class notes, assignments and activities. I also maintain a website which contains a daily calendar and important dates. Parents and students are expected to continually check PowerSchool to monitor marks, progress, and attendance. Please do not hesitate to contact me via email if you have any questions or concerns throughout the year.

Supplies

- Scribbler or binder with lined paper
- Pencils, erasers, pens, whiteout, highlighters
- Colored pencils and ruler
- Scientific Calculator (cellphones are not permitted to be used as calculators)

Technology

Technology such as a Chromebook is used at various times in this course to enhance learning. Students may also use technology to access learning supports such as Google Classroom. A cell phone is not considered an appropriate device for classroom use and the school policy for cell phones will be adhered to at all times. Please know that it is not a requirement for students to have purchased their own device for this class.

Classroom Expectations & Keys to Success

- Please arrive **on time**. This means you won't miss anything important at the beginning of class and our time together can be most effective!
- Come **prepared** to learn. Every day will include different activities, lessons and course work. You will need an open mind and proper materials for a successful class. Some days may be difficult, but a positive attitude and giving your best effort will go a long way to help you find success.
- Be **responsible** for your own learning. This includes completing all the expected coursework and seeking support when needed.
- **Respect** all members of our class. This includes yourself, other students, the teacher, and any guests in our room. Stay open-minded to others opinions and use appropriate, positive language in the classroom.

Welcome to Science 9! I look forward to a wonderful year together.