

Science 9

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UNITS:

The Power of Reproduction (Term 1)

- Cellular Processes, Asexual and Sexual Reproduction, Genetic Changes

Atoms and Elements (Term 2)

- Safety Considerations & Physical Properties, Chemical Changes/Reactions, Atomic Theory, Periodic Law

Characteristics of Electricity (Term 3)

- Static Electricity, Static and Current Electricity, Series and Parallel Circuits, Uses of Electrical Electricity, Electricity and the Environment

Discovering the Universe (Term 3 – time permitting)

- The Beginnings of the Solar System, Composition and Characteristics of the Solar System, Composition and Characteristics of the Universe

Lab Safety (Ongoing)

- Proper use of lab materials, storage and use of hazardous materials, WHMIS

Curriculum Outcomes:

The Science program is based on outcomes from four major areas :



- **Science, Technology, Society and Environment**

Students will develop an understanding for the nature of, relationships between, and social and environmental contexts of science and technology.

- **Knowledge**

Students will construct knowledge and understanding of concepts in life science, physical science, earth and space science.

- **Skills**

Students will develop the skills for scientific and technological inquiry, for solving problems, for communicating ideas and results, for working collaboratively, and for making informed decisions.

- **Attitudes**

Students will be encouraged to develop attitudes that will benefit self, society, and the environment.

Evaluation:

- Several summative assessment methods will be employed to evaluate students : These will include major tests, quizzes, assignments (both individual and group), projects, lab work, presentations and homework.
- We will also use quick, formative type assessments, to ensure students are learning in class. This type of assessment is completed in class and is usually based on that day's material.
- Student evaluation is based on the demonstration of the curriculum outcomes and as such, each outcome will be assessed and an overall mark (out of 100) determined at the end of each term.
- Although students are responsible for their own understandings, they will be involved in many collaborative group activities, to help further their understanding of the topics.



Explanation of Number Grades

90-100% = Student demonstrates excellent or outstanding performance in relation to the expected learning outcomes for this course.

80-89% = Student demonstrates very good performance in relation to the expected learning outcomes for this course.

70-79% = Student demonstrates good performance in relation to the expected learning outcomes for this course.

60-69% = Student demonstrates satisfactory performance in relation to the expected learning outcomes for this course.

50-59% = Student demonstrates minimally acceptable performance in relation to the expected learning outcomes for this course.

Below 50% = Student has not met minimum requirements in relation to the expected learning outcomes for this course.

Homework Policy:

Homework is an important bridge to student understanding. It will be monitored with the hope of creating a disciplined environment for student learning. All assessments must be completed by the assigned due date. If a student is unable to do so due to a prior obligation or extenuating circumstances, please provide a note/email.



Classroom Expectations:

Materials: Notebooks are an essential ingredient in meeting outcomes. Students will be required to maintain an updated and organized set of notes. It is not necessary for students to purchase a separate binder for Science; however they need to have dividers with which to organize their materials.

Students should bring their binder (with extra looseleaf), textbook, a pencil, a pen, a highlighter and a ruler with them to each class. Some days they will need other materials, such as calculators or colors, and they will be given advance notice so they can come prepared.

Behavior: The classroom is a place for learning and in order to be productive, it also needs to be a positive place. The science classroom will be a positive learning environment where every student can strive to learn something everyday.

We will also use the science lab at the school, and classroom expectations carry over to the lab as well.

Additionally, we must ensure safety is the number one priority in that setting and that all additional lab rules are followed.

Please feel free to contact me with any questions or concerns.