

Science 9

Mr. McInnis

Welcome to Science 9!! This year science is divided into 4 major units: cellular reproduction, electricity, chemistry and space. Each class has science for 5 hours over a 2 week cycle so it is important that students review concepts between classes, ask questions, and make the most of their class time. Some of the ways to increase the likelihood of success are to listen and pay attention in class and attempt all work to the best of your ability.

If your son/daughter is having difficulty, I strongly recommend that they come in for extra help. Extra help will be provided by request *any day* after school, or at lunch.

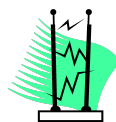
Here are some of the main outcomes we will cover this year:



The Power of Reproduction

Students will:

- recognize that the nucleus contains genetic information and determines cellular processes
- illustrate and describe the basic process of cell division
- distinguish between sexual and asexual reproduction
- compare sexual and asexual reproduction in terms of their advantages and disadvantage
- discuss factors that may lead to changes in a cell's genetic information



Characteristics of Electricity

Students will:

- identify properties of static electrical charges
- explain the production of static electrical charges
- compare qualitatively static electricity and current electricity
- describe the flow of charge in an electrical current
- describe series and parallel circuits involving varying resistance, voltage and current



Atoms and Elements

Students will:

- investigate materials and describe them in terms of their physical properties
- describe changes in properties of materials that result from some common chemical reactions

- use models in describing the structure and components of atoms and molecules
- identify examples of common elements, and compare their characteristics and atomic structure
- identify and write chemical symbols or molecular formulas of common elements or compounds



Exploration of the Universe

Students will:

- describe and explain the apparent motion of celestial bodies
- describe the composition and characteristics of components of the solar system
- describe theories on the formation of the solar system
- describe the effect of solar phenomenon on earth
- describe theories on the origin and evolution of the universe
- describe and classify the major components of the universe

Assessment and Evaluation

Students' progress will be tracked in a number of different formats throughout the year, these include:

observations and conversations with students
 in-class and homework
 tests and quizzes
 assignments
 projects

At times, these will be used to evaluate a student's knowledge about a particular topic and assigned a mark. Other times, they will be used to assess a student's progress and will be more observational or anecdotal.

You and your child have been invited to join my Google classroom. Your child will join the class using the classroom code and then you will receive an email invitation from me to join as well. It is important that parents not join using their child's code otherwise it looks like they are a student in the class.

Science 901 - apqk7n5

Science 902 - 2eiegwd

Science 903 - pohj4ha

Science 904 - 3fw4n6q

If you have any questions, please do not hesitate to contact me at the school. Your child will have a much more successful year if we work as a team. I have found that teacher and parent/guardian communication can help students a great deal. My email is listed below, please contact me any time with any questions you may have. Thank you and I look forward to a great year with your child!

Email: jmcinnis@hrce.ca