

Course Summary

In Science 9 you will be introduced to the following concepts:

- Atoms and Elements
- Characteristics of Electricity
- Exploring Our Universe
- Reproduction and Human Development



Course Outcomes

Life Science – Reproduction and Human Development (RE)
RE9.1 Examine the process of and influences on the transfer of genetic information and the impact of that understanding on society past and present.
RE9.2 Observe and describe the significance of cellular reproductive processes, including mitosis and meiosis.
RE9.3 Describe the processes and implications of sexual and asexual reproduction in plants and animals.
RE9.4 Analyze the process of human reproduction, including the influence of reproductive and contraceptive technologies.
Physical Science – Atoms and Elements (AE)
AE9.1 Distinguish between physical and chemical properties of common substances, including those found in household, commercial, industrial, and agricultural applications.
AE9.2 Analyze historical explanations of the structure of matter up to and including: • Dalton model • Thomson model • Rutherford model • Bohr model of the atom.
AE9.3 Demonstrate an understanding of the classification of pure substances (elements and compounds), including the development and nature of the Periodic Table.
Physical Science – Characteristics of Electricity (CE)
CE9.1 Demonstrate and analyze characteristics of static electric charge and current electricity, including historical and cultural understanding.
CE9.2 Analyze the relationships that exist among voltage, current, and resistance in series and parallel circuits.
CE9.3 Assess operating principles, costs, and efficiencies of devices that produce or use electrical energy.
CE9.4 Critique impacts of past, current, and possible future methods of small and large scale electrical energy production and distribution in Saskatchewan.
Earth and Space Science – Exploring our Universe (EU)
EU9.1 Inquire into the motion and characteristics of astronomical bodies in our solar system and the universe.
EU9.2 Analyze scientific explanations of the formation and evolution of our solar system and the universe.
EU9.3 Examine how various cultures, past and present, including First Nations and Métis, understand and represent astronomical phenomenon.
EU9.4 Analyze human capabilities for exploring and understanding the universe, including technologies and programs that support such exploration.

Assessment

Outcome Based Assessment will be used to determine whether a student is meeting the Outcomes of this course. Each assignment, lab, quiz or submitted assessment piece will be assigned to a specific Course Outcome. By submitting assignments, students will provide evidence that they are meeting the Course Outcomes.

To complete the requirements of Science 9, each student must provide evidence that they have met the majority of the Course Outcomes.

Students will be assigned a mark or grade based on Outcome Based Assessment. Each Course Outcome will be weighted equally. This course will not have a Final Exam.

Due Dates

Due dates are assigned to effectively assess whether students are meeting the Outcomes of Science 10. If you cannot submit an assignment at the due date, please contact me and we will discuss an alternate date. If an assignment is not submitted in a timely matter, we are not able to assess if you have met the outcomes associated with that assignment.

I want everyone to be successful in this class. Therefore, if you feel that you need extra help, please contact me. I will find time throughout the day to assist you when necessary.

Non-Academic Considerations

1. You can use my blog to keep up to date with the Health Science 20 schedule of activities. <http://slewchuk.blogspot.ca/>
2. You are expected to attend class regularly. This involves being on time for all classes. If you cannot attend class, please use my blog to remain current with the coursework.
3. I allow the use of electronic devices in the classroom if the use of these electronic devices is not hindering the learning process. If you are engaged with another person in the learning process do not use your electronic devices for social purposes. Misuse of electronic devices will be discussed on an individual basis.
4. You are expected to behave in a mature and respectful manner in and out of class. That means demonstrating respect for your classmates and the teacher as well as property (desks, equipment, etc). If you damage any classroom equipment, please tell me so I may repair or replace the equipment.

I want everyone to be successful in this class. Therefore, if you feel that you need extra help, please ask me. I will find time throughout the day to assist you when necessary.

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