

Science 10F

Semester 1 – September 2018- January 2019

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Course Objective

The goal of this course is to introduce students a variety of Science topics. This course will prepare students to take higher level Science courses during the remainder of their high school education. Science 10F has one unit of emphasis in four areas of Science: Biology, Physics, Chemistry, and Astronomy.

Text

Wolfe E., C. Clancy, et al. (1999). Sciencepower 9. Toronto. Mcgraw-Hill.

Evaluation

70% Course Work

30% Final Examination

Materials Needed

- Pens or pencils
- Binder and loose leaf paper
- Computer Access

Units of Study

Unit 1: Reproduction

Reproduction is an essential biological mechanism for the continuity and diversity of species. In this cluster, students compare sexual and asexual methods of reproduction. Students learn how the human reproductive system functions and describe the major stages of human development from conception to birth. Lastly, the students look at the inheritance of traits.

Unit 2: Atoms and Elements

This cluster builds on the particle theory of matter introduced in previous grades. Students will become familiar with the basic constituents of matter by learning about the historical development of the atomic model and the periodic table. Students will investigate the properties of elements and compounds and acquaint themselves with chemical symbols and families.

Unit 3: Exploring the Universe

This cluster leads students through an exploration of the universe, beginning with observational astronomy and ending with a critical look at issues surrounding space science and technology.

Unit 4: The Nature of Electricity

The conceptual development of the particle model of electricity underlies an understanding of electrostatics and current electricity.

Class Expectations

You are expected to be on time, prepared to learn, and respectful to all people in the classroom. All assignments and projects must be completed and handed in on time to be considered for full marks. If you miss class, it is your responsibility to ask for help and get caught up. For more information please refer to the Late Policy in the Ste Rose School/Turtle River School Division Handbook.

As the teacher I also have responsibilities that include making sure your grade is accurate, meaningful, and consistent with your understanding, and making sure you have the information you need to be successful. I will also have an open line of communication with your parents and/or guardians to ensure you are meeting everyone's expectations.

Please do not hesitate to ask if you need help with anything. I am always available during the school day, and I check my email at least once per evening.