

COURSE OUTLINE-Mrs. Ashcroft

Grade 9 Science (10F)

Learning, respect, responsibility, and safety are the guiding principles at the SVRSS. If any of these four values are compromised the issue will be addressed. In room 212, students are expected to put forth an honest **effort**, **attend** class on time, arrive **with materials** daily and display a **respective, cooperative, responsible attitude and behaviour** towards other class members, EA's, substitute teachers and myself!

Class Routines:

Please be on time to class and you should have pens, binders, and your textbook ready when class begins. When asking to leave the room for any reason, any electronic device must be left in the room in a safe location. You are to remain seated until the end of class and NOT congregate at the doors or the hallway until you are dismissed. The bell does not dismiss you as instructions and/or lab clean up needs to be completed before leaving. A discussion will be had as to which foods and/or beverages will be allowed at the tables in room 212.

Digital Citizenship:

Use of personal devices is **not allowed during direct class instruction**. Devices or distractions will be out of sight while class is in session. Once attendance is taken and class begins any distractions need to be removed by placing them in a binder or backpack. If distractions are consistent, you will be asked to place your device in a safe place at the front of the room. There are also locations available to charge devices during class time. The use of personal electronic devices is encouraged and can be a very useful tool. Students may listen to music during work sessions. Students are expected to manage their distraction and use of personal devices. To be clear, when you are distracted or are distracting others, you will be asked to hand the device in.

"All members of the Swan Valley School Division community are expected to use digital technology in a safe, respectful, responsible, and ethical manner. SVSD devices are to be used in the classroom for learning. Students are encouraged to use personal devices as supported by the classroom teacher for positive education benefits and guided classroom instruction."

*****Absolutely no electronic devices are permitted during quizzes, tests, or exams. Students who are caught with electronic devices will receive an automatic zero without debate*****

Evaluation:

Rich Performance Tasks: Assignments & Quizzes	30%
Demonstrations: Classroom and Lab Work	10%
Projects (mandatory completion)	10%
Tests	35%
Final Exam	15%

FORMATIVE ASSESSMENT is work that is monitored daily but does not count towards a final grade. It is an indicator of curriculum outcome comprehension that students have obtained from completing work during class time or at home, observations, and conversations with students.

SUMMATIVE ASSESSMENT includes assignments, quizzes, tests (accumulated assessments) and the exam (final assessment). All summative assessments count towards a student's final grade. Students who do not complete formative work, may find summative work difficult.

Reasonable timelines will be set for all work. All efforts to complete assignments must be made. Students who know that they will not complete the work in the timeline set must communicate that with the teacher and determine how/when the work will get completed. It will be at the discretion of the teacher to accept late work.

The Provincial Assessment Policy K to Grade 12 (2011) states "...students are ultimately responsible for the timely completion of their assignments and for knowing that there are consequences for failure to adhere to the parameters."

Assessment and Evaluation:

PowerSchool's app can be a valuable tool as you track your assignments and progress in class. Please be sure to use the app to track your progress and marks. PowerSchool allows for a late symbol, a missing symbol and a checkmark to show completion in place of formal marking. Included in your report card is a record of the following learning behaviors: Personal management skills, active participation, and social responsibility. These essential skills are important factors that contribute to success in the classroom and to the workplace. They are not used in determining grades; however, these behaviors are often indicators of personal motivation and engagement.

Attendance:

Attendance will be taken within the first 10 minutes of class. Students will be marked truant if they are not in class when attendance is taken. At the time that they enter class they will need to notify the teacher so that the truant designation can be changed to reflect lateness. If a student knows ahead of time that they will be away, please discuss and ask for any assignments that will be missed before leaving. This will help you to stay with the rest of the class and not get behind.

Test Preparation:

Students will be given a minimum of 3 school days' notice for tests. Quizzes can be given at random. All questions for testing will come from materials covered in class and from handouts given.

Exam:

A mark of 50% on the exam is expected (you will be asked to return to school to continue to earn the 50% if it is not achieved)

Credit Acquisition:

A final overall mark of 50% in the course must be earned to receive a credit in the course. There are mandatory projects/assignments that must also be completed before the credit is granted. Be sure to complete those in a timely manner. I encourage all students to strive for excellence to avoid any possibility of credit loss!

Essential Learning Outcomes:**Description:**

This course is set up to address wonders and curiosities about the nature of science. Through scientific inquiry, technological problem-solving and decision making, students can discover the significance of science in their lives.

Essential Learning Outcomes:

- i. Reproduction: Illustrate and explain the processes involved in human development.
 - ☒ mitosis/meiosis
 - ☒ cell cycle
 - ☒ male and female reproductive systems (anatomy, physiology, embryology) Describe the role of genetics.
 - ☒ DNA
 - ☒ Genetic mutations
 - ☒ Dominant/recessive genes
 - ☒ Inheritance of sex-linked traits
- ii. Chemistry: Analyze and use the Periodic Table and its components
 - ☒ Organization (periods, groups, families)
 - ☒ Rutherford-Bohr models (atomic structure, mass, number, valence number, etc.)
 - ☒ Formation of ionic compounds, naming, formulas
 - ☒ Investigate physical and chemical properties of matter
 - ☒ Identify the different types of physical and chemical changes
 - ☒ Indicators of physical and chemical change
- iii. Electricity: Identify electrical particles and demonstrate how electrostatics works
 - ☒ Charges, conduction, induction, insulators, and groundingDemonstrate and explain the nature of current electricity
 - ☒ Series and parallel circuits (voltage, resistance, current, voltmeter, ammeter)Recognize daily consumption and efficiencies of electricity in everyday life
- iv. Space: Observe and locate visible and celestial objects
 - ☒ Planets, moons, stars, comets, and asteroids, etc.Investigate ways in which Canada contributes to space research
 - ☒ Technological advancements (Canadian Space Station and Canadarm)
 - ☒ Effects of space travel (health and body)

