

## PHYSICS 40S COURSE OUTLINE

Teacher --- C. Larson

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**Course Description:** Physics 40S is the study of natural phenomena and the attempt to organize these phenomena into some rational order that is usually of a mathematical nature. The program depends heavily on mathematical problem solving involving the use of several formulae derived from the relationships studied. One objective of the course is to increase the students' knowledge of basic concepts in classical mechanics. Another is to enable the student to develop and apply the skills of science and to promote an understanding of the relationship between physics, technology and their impact upon the individual and society.

**Materials:** Material required for this course include: Scientific calculator, geometry set, loose leaf and binder

**Course Expectations:** It is expected that all members of the school community will uphold the underlying beliefs of the School code which include the following: Learning, Respect, Responsibility, and Safety. With that said, punctuality, regular attendance, and completion of daily work are essential for success in this course. You are expected to work as independently as possible, but if you need help with a question or have difficulty with a concept, raise your hand and I will assist you. If there are still things you don't understand, we can usually arrange for help beyond class time. There is a considerable amount of material to be covered in this course, but if you use your time wisely and keep up with your work, I am sure you will find this course both rewarding and interesting.

**Topics:** The Physics 40S program consists of the following major areas of study:

1. Work, Power and Energy
2. Light
3. Electrostatics
4. Electricity
5. Electromagnetism
6. Medical Physics

<b>Evaluation:</b>	Tests, Quizzes and Labs	60%
	Final Project	10%
	Final Exam	30%

**Learning Behaviours:** The following learning behaviours are assessed during formal reporting times and recorded on the report card: Personal Management Skills, Active Participation in Learning, and Social Responsibility.

## **Digital Citizenship:**

Use of personal devices is not allowed *during class time*. As mandated by the province, *Grade 9 to 12 students: banned from cell phone use during class time on campus and off campus but are permitted to responsible use of cell phones during break times and lunch.* 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.

*“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 these devices as supported by the classroom teacher for positive educational 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\*\*\***