

NEPEAN HIGH SCHOOL

Science Department

SPH3U

Prerequisite: SNC2D or SNC2DE

Teacher Name: Mr. Gragg

Student Name: _____



Textbook: McGraw Physics 11 Replacement Value: \$ 120.00 Assigned Text # _____

COURSE DESCRIPTION:

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

The curriculum document is available from: <http://www.edu.gov.on.ca/eng/curriculum/>

UNITS OF STUDY:

Unit 1	Kinematics	Chapters 2 - 3
Unit 2	Forces	Chapter 4
Unit 3	Energy In Society	Chapters 5 – 6 (plus additional material)
Unit 4	Waves and Sound	Chapters 7 - 9
Unit 5	Electricity and Magnetism	Chapters 13 - 15

ASSESSMENT AND EVALUATION:

Category and Types of Assessment	Weight
Knowledge & Understanding <ul style="list-style-type: none">knowledge of facts and terms; understanding of concepts, principles, laws and theories; relationships between concepts and transfer of concepts to new contexts	21 %
Thinking, Inquiry & Problem Solving <ul style="list-style-type: none">use of skills and strategies in scientific inquiry, such as planning, performing, recording, analysing, interpreting and problem solving ; applications of technical skills and procedures; use of equipment and materials;	28 %
Application <ul style="list-style-type: none">connecting science, technology, society and the environment	10.5 %
Communication <ul style="list-style-type: none">communicating information and ideas with clarity and precision; using scientific terminology, conventions and SI units	10.5 %
Summative <ul style="list-style-type: none">end of year summative project (rich performance task) 10% and final exam 20%	30%

ADDITIONAL NOTES:

The Nepean Science Department follows the evaluation policies as outlined in the Student Agenda.

Students are expected to care for the textbooks issued to them and to return them in good condition.

Each student is required to bring to class pens and pencils, textbook and notebook, and a ruler, geometry set, graph paper and a scientific calculator.

Students are expected to behave in a responsible manner. They will be billed for any breakage that results from carelessness.

All work to be marked must be typed or neatly handwritten in blue or black ink. Pencil is only permitted for diagrams.

All assignments are to be written individually, unless otherwise stated by the teacher.

Extra help for review, remediation or enrichment is readily available. This is best arranged by appointment. Your teacher will provide times when (s)he is available.

