

# Lambton Kent Composite School

J. Keane, Principal



231 St. George Street N.  
Dresden, Ontario N0P 1M0

Telephone: (519) 683-4475  
Fax: (519) 693-2699

**Course:** Physics **Course Code:** SPH3U **Grade:** 11  
**Course Type:** University Preparation **Credit Value:** 1 **Prerequisite:** SNC2D  
**Curriculum Document:** *Science, Grades 11 and 12, 2008, Revised*  
**Textbook:** Pearson PhysicsSource 11 **Teacher:** S. Patchett

## 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.

## Required Materials:

Students are expected to come to class every day prepared with:

3 ring binder	lined paper	graph paper
ruler	scientific calculator	pencils/pens
eraser	protractor	

## Units of Study:

- |                                      |                     |
|--------------------------------------|---------------------|
| 1. Kinematics (Motion)               | 5. Waves and Sound  |
| 2. Introduction to Projectile Motion | 6. Electricity      |
| 3. Dynamics (Forces)                 | 7. Electromagnetism |
| 4. Energy and Energy Transformations | 8. Nuclear Physics  |

**Evaluation:** A student's final grade in the course will be determined as follows:

**70 % TERM MARK** A student's term mark will include a variety of evaluations such as tests, quizzes, assignments and presentations and will be marked according to the following weightings.

Knowledge and Understanding	30%	Application	30%
Communication	20%	Thinking and Inquiry	20%

**30 % SUMMATIVE EVALUATION** Will be made up entirely of a 30% final examination.

## Late Policy:

Students are expected to submit all assignments within the time frame specified. While teachers will consider extenuating circumstances, late students are subject to mark deductions. If an assignment is late, a penalty of 10% per school day will be deducted, up to a maximum of 50%. Once assignments have been returned to the class, late submissions may receive a mark of zero.

## Student Expectations:

**1. Attend class every day:**

If you are absent it is YOUR responsibility to obtain notes from a classmate, catch up on missed work, find out about any upcoming evaluations and see the teacher if you need assistance.

**2. Arrive to class prepared to work physically and mentally:**

Class time is precious and will not be wasted going to your locker or to the washroom. Make sure you bring the required materials, use the washroom during breaks and are in your seat ready to work when the bell rings. You are expected to use your class time productively for the entire period, everyday.

**3. Complete and check all homework:**

Homework and assignments are crucial to your success in physics. You will be given the opportunity to take up or discuss the previous days homework near the beginning of class. If you have difficulty with the homework extra help is always available outside of class time...but YOU have to ASK.

**4. Make arrangements for any missed tests/quizzes.**

If you know you are going to be away on the day of a test (sport/club etc) make sure you make arrangements with the teacher to write the test at an alternate time. For unexpected absences, see the teacher BEFORE CLASS on the day you are back at school. Tests or quizzes missed due to TRUANCY will result in a mark of ZERO.

**5. Complete solutions**

Physics involves the application and interpretation of mathematics to solve problems. It is crucial that you show your mathematical work clearly and with good form on all homework assignments, tests and quizzes. A correct answer without a complete solution is not acceptable.

**6. Lab expectations**

While most of this course is “theoretical” you also complete several labs to complement your classroom experience. The experimental portion of these labs are often completed in a group setting, but the lab write up is almost always INDIVIDUAL. Members of your group will have identical experimental data but your analysis and interpretation will be significantly different. It is acceptable to compare answers and discuss your labs but make sure you complete your lab write up individually and you are only handing in your own work.

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STUDENTS SIGNATURE

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PARENT'S SIGNATURE

