

# Henry Street High School

## SPH 3U1

Physics, University Preparation

### COURSE OUTLINE

#### 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 electricity and magnetism. Throughout the course, students will develop their skills in the processes of scientific investigation and explore careers related to science.*

#### UNITS OF STUDY

**UNIT 1** – Scientific Investigation Skills and Career Exploration

**UNIT 2** – Kinematics

**UNIT 3** – Forces

**UNIT 4** – Energy and Society

**UNIT 5** – Waves and Sound

**UNIT 6** – Electricity and Magnetism

#### ASSESSMENT AND EVALUATION

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Each unit may include the following strategies:

- ❖ Quizzes
- ❖ Lab Activities
- ❖ Assignments
- ❖ Computer Activities
- ❖ Tests/Unit Tests

#### SUMMATIVE EVALUATIONS

Summative evaluations will include marks from at least one of the following categories:

Knowledge	35%
Thinking/Investigation	35%
Application	15%
Communication	15%

#### FINAL EVALUATION

Term Work	70%
Final Summative Evaluation	30%

#### OTHER INFORMATION

**TEXTBOOK** - Nelson Physics 11 - \$80 replacement cost

**EQUIPMENT**: Binder, calculator, pen, pencil, ruler, paper, graph paper