



**Sturgeon Composite High School**  
**Physics 20**  
**COURSE OUTLINE**



**PREREQUISITE:** Minimum of 50% in Science 10  
Recommended 60% in the Physics Unit and an overall  
average of 60% in Science 10 and Math 10C

Name \_\_\_\_\_

**TEXT:** Physics: Pearson

**COURSE MATERIALS:** Calculator  
Three ring binder, loose leaf

**COURSE CONTENT:** The Physics 20 program is an academic course dealing with the study of matter and energy and their interactions. Through the study of the Physics program, students will develop a better understanding of the natural world.

The Physics 20 program consists of **four** units of study.

**UNIT A: Kinematics 15%**

Kinematics is the study of uniform motion and accelerated motion using vector and scalar quantities.

**UNIT B: Dynamics 25%**

Dynamics is the study of forces, Newton's Laws and gravitational forces and fields.

**UNIT C: Circular Motion and Oscillatory Motion 30%**

Extension of the study of kinematics and dynamics to uniform circular motion and harmonic motion.

**UNIT D: Work, Energy and Mechanical Waves 30%**

Study of energy, work, energy transformations and mechanical waves.

**EVALUATION:** The final mark in Physics 20 will be based upon:

**TERM WORK** – Consists of: **60%**

- Lab reports, quizzes and assignments = 18%
- Unit tests and midterm exam = 42%

**FINAL EXAM** - **40%**

- Cumulative exam of all course material = 40%

**BEHAVIORAL EXPECTATIONS:** As outlined in the Student Agenda and by the individual teacher.  
Inappropriate behavior will not be tolerated.