



Loyola

HIGH SCHOOL

Physics 5 Course Outline

Teacher: Mr. W. Sanders

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Introduction:

The Physics program is intended to consolidate and enrich students' scientific training and is a prerequisite for several pre-university and technical programs at the college level. The content is organized around four general concepts: kinematics, dynamics, transformation of energy and geometric optics.

Textbook: Fundamentals of Physics: A Senior Course

Supplies: 3-ring binder
Loose leaf and graph paper
Pencils, eraser, 15 cm ruler
Scientific calculator

Competencies / Evaluation:

<i>Section</i>	<i>Competency</i>	<i>Weighting</i>
Practical	Seeks answers and solutions to scientific or technological problems.	40 %
	Communicates in the language used in science and technology.	
Theory	Makes the most of his knowledge of science and technology.	60 %
	Communicates in the language used in science and technology	

Practical:

Lab reports: 60%
Lab Exam: 40%

Theory:

Homework: 10%
Tests: 90%

Extra help:

Extra help is available on an as needed basis. The student is responsible for asking the teacher to meet at a mutually convenient time.

Course Content

Term 1 (20%)

Graphing Motion-Displacement-Time, Velocity-Time, Acceleration-Time
Constant Acceleration Formulae
Projectiles (1-D and 2-D)
Newton's Laws

Term 2 (20%)

Newton's Laws
Momentum
Energy
Power

Term 3 (60%)

Optics
Speed of Light
Refraction & Reflection
Snell's Law
Critical angle
Mirrors
Lenses