Collapse all

# Physics, Part 2

## In Progress

Grading at the end of the assignment can take 7 school days!
Submit your last assignment two weeks before your school's semester ends.

The prerequisites for this course are: Algebra I, Geometry, and Algebra II (co-requisite)
OR
Integrated Math 1, Integrated Math 2, and Integrated Math 3 (co-requisite)

## How to Take This Course

Complete all the quizzes and the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit's assignment. Assignments are graded by your instructor. Your instructor will provide feedback and may ask you to revise and resubmit your assignment. Your instructor will let you know if you are ready to move on to the next unit. Some units have a lab instead of an assignment, and some units have an assignment and a lab.

Always check the directions for an assignment to be graded. To understand the course grading, read the full course introduction.

- Course Introduction
- View This Course Works & Suggested Timeline
- Submitting Your Assignments
- List of Lab Supplies and Equipment

This is a laboratory science course, so assignments and quizzes will require you to perform experiments. Some of the experiments require equipment and supplies. Review the list of lab supplies and equipment to see what you will need for this course.

You do NOT have to purchase a lab kit. Here is a **list of supplies and equipment** that you will need for the course.

- Ask The Teacher

Ask your instructor questions here.

**Need help with the course?** We offer online tutoring. Five more details, about 6 more.

- MANAGEMENT GOALS

Completion ▾

You are required to take the quizzes and complete the course. Grades, though, are only for course instructions and the "submitting your assignment" process. Your instructor will let you know how to access your grade once the assignment has been graded.

- Learning Objectives & Standards Met By This Course

Completion ▾

## Unit 1: Waves and Sound

In this unit, you will discover how vibrations can be used to transfer energy. Sound waves are a familiar example of this type of wave. You will learn how to describe waves in terms of their properties: frequency, wavelength, and speed. These concepts will help you visualize how waves transfer energy through different materials. You will also learn how sound waves behave when they meet objects and when they travel through different mediums. Finally, you will learn how the human ear detects sound waves and how musical instruments are created.

A speed trace will be provided at several points, one of the most familiar forms of mathematical reasoning. You will study how sound travels through different materials. You will learn how the human ear detects sound waves. You will learn how musical instruments are created. You will learn how to use the speed trace to solve problems.

- Unit 1 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the title above, and make a copy of the file. If you don't have access to Google Docs, preview the worksheet and download an editable version or PDF.

- 1.1 Vibrations and Waves

Completion ▾

- Quiz 1.1

Completion ▾

- 1.2 Anatomy of Waves

Completion ▾

- Quiz 1.2

Completion ▾

- 1.3 Properties of Waves

Completion ▾

- Quiz 1.3

Completion ▾

- 1.4 Behavior of Waves

Completion ▾

- Quiz 1.4

Completion ▾

- 1.5 Standing Waves

Completion ▾

- Quiz 1.5

Completion ▾

- 1.6 Sound Waves and Their Properties

Completion ▾

- Quiz 1.6

Completion ▾

- 1.7 Behavior of Sound Waves

Completion ▾

- Quiz 1.7

Completion ▾

- 1.8 Resonance

Completion ▾

- Quiz 1.8

Completion ▾

- Unit 1 Assignment: Creating a Wave

Completion ▾

- Unit 1 Test

Completion ▾

You available unless: The activity Quiz 1.1 is marked complete.

Show more ▾

## Unit 2: Light

In this unit, you will be able to explain how light behaves as it interacts with reflection or mirrors and lenses. You will explain how light behaves as it interacts with reflection or mirrors and lenses. You will explain how light behaves as it interacts with reflection or mirrors and lenses. You will