

Leon High School  
Mr. Coon

Topic: - Waves

Objectives: - The student will:

- Recognize that waves transfer energy without transferring matter.
- Distinguish between a longitudinal and transverse wave
- Identify and define the crest, trough, medium, amplitude, frequency, wavelength, period, compression, and rarefaction.
- Use the wave equation to solve wave problems involving speed, wavelength, and frequency.
- Display understanding that the speed of a wave depends on the characteristics of the medium.
- Understand what occurs when a wave passes a boundary of different mediums.
- Analyze the superposition of wave interference and identify as constructive or destructive.
- Define refraction, diffraction, and reflection as related to wave interactions.

Activities:

Online Reading/Study

<https://student.pasco.com>

Student Access Code USFL040434-EP3-SB-0724-C67YC

Chapter 15 Waves P410 – 435

Video

Wave Basics

<https://www.youtube.com/watch?v=UMC1EI-2sLo>

Vocabulary

Wave Crossword

Qualitative Questions

419 (1)

426 (4,5)

434 (1,4)

Quantitative Questions

Wave Worksheet PW1

Interactive Laboratory Simulation

416 Investigation 15A Part 1

Combined Assessment

439 (78-90)

Time: 1.5 weeks

Evaluation: Submission of online activities

Florida Department of Education Course Description Requirement(s) addressed:

After successfully completing this (unit), the student will:

- SC.H.3.4.2 know that technological problems often create a demand for new scientific knowledge and that new technologies make it possible for scientists to extend their research in a way that advances science.
- SC.H.3.4.6 know that scientific knowledge is used by those who engage in design and technology to solve practical problems, taking human values and limitations into account.

## Week 3 & 4 Schedule

### Waves

<p><b>13 WAVES</b></p> <p>Online Reading/Study  <a href="https://student.pasco.com">https://student.pasco.com</a>          Student Access Code USFL040434-EP3-SB-0724-C67YC          Iso available Classlin Pasco con          Chapter 15 Waves P410–418</p>	<p><b>14 WAVES</b></p> <p>Online Reading/Study          Chapter 15          Waves P422-425</p> <p>Vocabulary          P435 #'s 1-20          Wave Crossword</p>	<p><b>15 WAVES</b></p> <p>Interactive Laboratory          Simulation          P416          Investigation          15A Part 1</p>	<p><b>16 WAVES</b></p> <p>Qualitative Questions          419 (1)          426 (4,5)          434 (1,4)</p>	<p><b>17 WAVES</b></p> <p>Quantitative Questions          Wave          Worksheet          PW1</p>
<p><b>20 WAVES</b></p> <p>YouTube Video and Video Questions          Wave Basics  <a href="https://www.youtube.com/watch?v=UMC1EI-2sLo">https://www.youtube.com/watch?v=UMC1EI-2sLo</a></p>	<p><b>21 WAVES</b></p> <p>Combined Assessment          P439 (78-90)</p>	<p><b>22 SOUNDS</b></p> <p>Study Ch 16          PP441-- 467 Do          Chapter 16          vocabulary P467          # 1-12</p>	<p><b>23 SOUNDS</b></p> <p>Interactive Laboratory          Simulation          P443          16A Part 1</p>	<p><b>24 SOUNDS</b></p> <p>10 notes from          Section 1          PowerPoint Slides PDF</p>