

# Unit 7: Sound

## Learning Targets




























### 4. I can describe the properties and characteristics of sound.

- A. I can recognize that sound is a longitudinal mechanical wave.
- B. I can state the relationship between amplitude and loudness as well as between frequency and pitch.
- C. I can state that the speed of sound depends upon temperature and calculate the speed of sound for a given temperature.
- D. I can explain the phenomenon of beats and calculate the beat frequency.
- E. I can define and locate the nodes and antinodes in a resonant wave pattern.
- F. I can analyze the frequency and wavelength for the harmonics of a closed pipe.
- G. I can explain the Doppler Effect.



## Week 1



| Date          | What Are We Doing?   | Your Assignment  | Textbook Reference   | Date Due?  |
|---------------|--|--|--|--|
| <b>1/27</b>   |  Collaborate on Wave Unit #3 Take Home Quiz<br> Sound Vocabulary Journal |  Take Home Quiz<br> <a href="#">Sound Vocabulary Journal</a>   |  CH19<br> CHs 20 & 21                  |  1/28<br> 1/31     |
| <b>1/28 d</b> |  Sound Research Project Work Day  |  <a href="#">Sound Research Project</a>   |  CHs 20 & 21  |  1/30   |
| <b>1/29</b>   |  Sound Research Project Work Day  |  <a href="#">Sound Research Project</a>   |  CHs 20 & 21  |  1/30   |
| <b>1/30 d</b> |  Sound Research Project Presentations<br> Let's Talk About Sound!    |  <a href="#">The Nature</a> & <a href="#">The Properties</a> of Sound Waves Worksheets<br> Study for Vocabulary Quiz |  Physics Classroom<br> CHs 20 & 21 |  1/31<br> 1/31 |
| <b>1/31</b>   |  Vocabulary Quiz<br> Phun Physics Phriday!!! =)                      |  None!!! =)   | -----  | -----  |
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