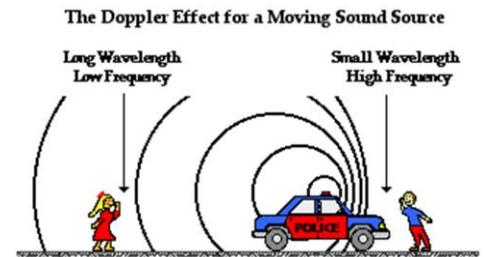


Sound—Section 2—Properties of Sound--Pages 650-655 --RED BOOK

➤ *Use complete sentences or write the question and record your answer under your written question. Write neatly or type your answers.*

1. What two factors affect how loud a sound seems to you?
2. When scientists measure the loudness of a sound, what unit do they use?
3. List 5 sounds in order from soft to loud. Tell how loud each sound is in decibels.
4. Approximately how loud does a sound have to be to start causing damage to your ears?
5. What is pitch?
6. Draw and label a high pitch longitudinal sound wave and a low pitch longitudinal sound wave. Label one wavelength on each longitudinal wave.
7. What range of frequencies do most people hear?
8. Watch the video called “**How Old Are Your Ears?**”



- a. <https://www.youtube.com/watch?v=VxcbppCX6Rk>
 - b. Explain why everyone loses high frequency hearing first as you age.
9. Take a **hearing test online**. Use **headphones** while taking the test. Record the highest and lowest frequency you can hear in Hertz. Give the test to one of your parents or to a grandparent. Record the highest and lowest frequency they can hear.
 - a. **High Frequency Hearing Test** -
<https://www.youtube.com/watch?v=h5l4Rt4OI7M>
 - b. **Low Frequency Hearing Test** -
http://www.youtube.com/watch?v=4G60hM1W_mk
 - c. **Alternate Hearing Test** -<https://www.youtube.com/watch?v=VxcbppCX6Rk>
 - d. **Alternate Hearing Test**--<http://onlinetonegenerator.com/hearingtest.html>
 10. Many animals hear much better than humans. Do some research and make a list which includes what you think are the top ten animals that have the best hearing. For each animal listed, include their range of hearing in hertz.
 11. How is an **ultra sound** different than an **infra sound**?
 12. When you speak or sing, what two things vibrate to create the sound waves?
 13. What is the **Doppler Effect** and why does it occur?
 14. Draw and label a picture which illustrates the **Doppler Effect**.
 15. What is a shock wave or sonic boom?

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