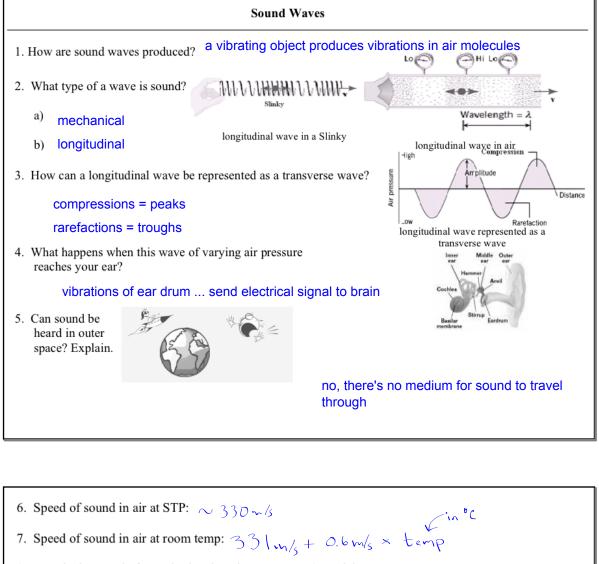
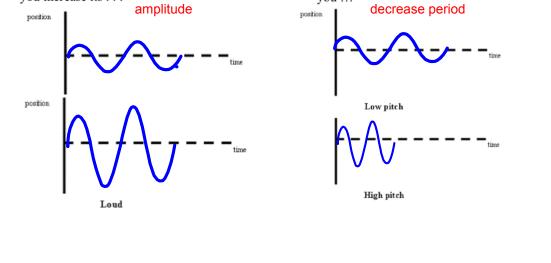
## January 10, 2020

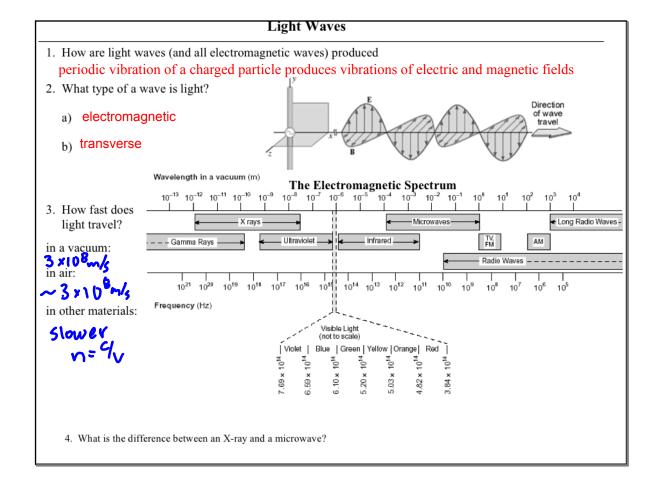


- 8. How is the speed of sound related to air temperature? Explain. higher temp, fasters s.o.s.
- 9. Does sound travel fastest in a solid, a liquid, or a gas?
- 10. As you increase the loudness (volume) of a sound, 11. As you increase the pitch of a sound, you increase its . . . you ...



## January 10, 2020

| -   | student strikes first a 256 hertz tuning fork and then a 394 hertz one.<br>b) Which fork has a c) Which note has a d) Which note is greater period? c) Which note has a d) Which note is traveling fastest? |
|---|---|
| e) Calculate the wavelength and<br>period of the 256 Hz tuning<br>fork. | f) How long would it take a<br>second student to hear a note<br>from the 256 Hz tuning fork<br>if they are sitting 7.5 meters<br>away?  |
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|   |   |



## January 10, 2020

| 4. What is the difference between an X-ray and a microwave?  |
|--|
| different freq (period)  |
| 5. What is the difference between a radio wave and a sound wave?<br>EM wave vs. mechanical wave          |
| 6. Which type of electromagnetic radiation has the highest frequency? Longest wavelength? Highest speed? |
| gamma rays long radio waves  |
| 7. What range of frequencies is considered to be green light?  |
| 5-6 x 10 ^14 hz  |
| 8. Which color of visible light has the highest frequency? Longest wavelength?                           |
| violet red   |
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