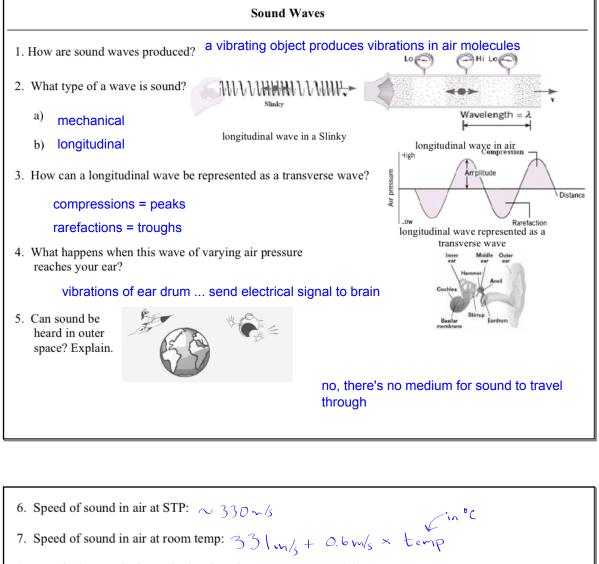
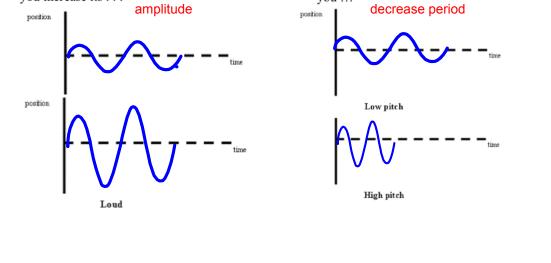
## January 10, 2020

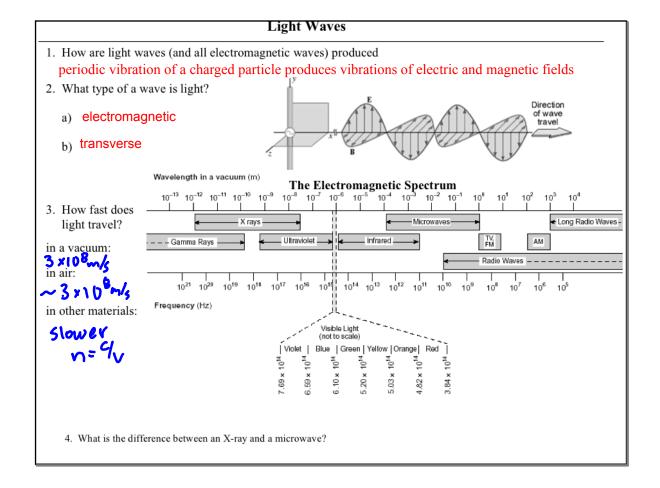


- 8. How is the speed of sound related to air temperature? Explain. higher temp, fasters s.o.s.
- 9. Does sound travel fastest in a solid, a liquid, or a gas?
- 10. As you increase the loudness (volume) of a sound, 11. As you increase the pitch of a sound, you increase its . . . you ...



## January 10, 2020

-	student strikes first a 256 hertz tuning fork and then a 394 hertz one. 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 period of the 256 Hz tuning fork.	f) How long would it take a second student to hear a note from the 256 Hz tuning fork if they are sitting 7.5 meters away?



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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? 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

