

Wave introduction:

Waves: Transverse vs. Longitudinal

- *1. <https://www.youtube.com/watch?v=RVyHkV3wlyk> (intro to waves 3 min)
- *2. <https://www.youtube.com/watch?v=jAXx0018QCC> (transverse and longitudinal waves 12 min)

Sound Waves:

- 17. <https://www.youtube.com/watch?v=7hwzG0YI9ms> (E.M)
- 18. <https://www.youtube.com/watch?v=REqxyVIT45M> (part 1)
- 19. <https://www.youtube.com/watch?v=wmK3LV7oBDo> (part 2)

- 2. <https://phet.colorado.edu/en/simulation/color-vision>
- 3. <https://www.youtube.com/watch?v=rbx3K1xBxVU> (polarization 1 min)
- 3.5 <https://www.youtube.com/watch?v=edDuriQHQNQ> (polarization 3 min)
- 4. <https://www.youtube.com/watch?v=zGrg8K6OSvc> (polarized sunglasses 15 min)
- 4.5 <http://www.onlinetonegenerator.com/> (tone generator)
- 4.75. https://www.youtube.com/watch?v=H-iCZEIJ8m0&ebc=ANyPxKrpppBTqOAed23319Dtf78nzsJc99nMfRBdtXHQkxI2eKj9kgopa6zACeOh0yidnH7L7HfSEUOQlu0_EfbGqW2I1oqg (tone generator 2)
- 5. <https://www.youtube.com/watch?v=hvkipAIRKq0> (hearing test 1 min)
- 6. <http://channel.nationalgeographic.com/channel/brain-games/videos/high-frequency-hearing-test/>
(national geographic hearing test)
- 6.5 <https://www.youtube.com/watch?v=54kiAfAgjA8> (anechoic Chamber)
- 6.6 https://www.youtube.com/watch?v=i_RI98sqz6o (anechoic Chamber)
- 6.7 https://www.youtube.com/watch?v=i_RI98sqz6o (anechoic Chamber)
- 7. <https://www.youtube.com/watch?v=-Zu5SGllmwc> (shock waves – sound barrier 1 min)
- 8. <https://www.youtube.com/watch?v=gWGLAAYdbbc> (shock waves – sound barrier 3 min)
- 9. <https://www.youtube.com/watch?v=dtdHOTvCTEM> (constructive interference 3 min)

10. <https://www.youtube.com/watch?v=LCs8mK1rzc0> (color addition part 1 5 min)
11. <https://www.youtube.com/watch?v=r8ejTUNwgTo> (color addition part 2 5 min)
12. <https://www.youtube.com/watch?v=KVc7oBKzq9U> (Tacoma Narrows Bridge 7 min)

Pendulum's:

14. https://www.youtube.com/watch?v=igpV1236_Q0 (Foucault pendulum Chicago 6 min) weak
15. https://www.youtube.com/watch?v=UO_ndQeUDQs (History of Foucault Pendulum, 14 min)

Earth Quake waves, both S and P waves:

16. <https://www.youtube.com/watch?v=huiiEehjUds> (S and P waves, 4.25 min)
17. <https://www.youtube.com/watch?v=ndD7JDkoFFc&t=486s> (S and P waves. 9.48 min)
18. <http://quakes.globalincidentmap.com/> (world map of current earthquakes)