Gluck Program's Classroom Online Resource Document on The PHYSICS of SOUND Presented by no.e Parker

Physical energy comes in many forms, and sound falls into the realm of mechanical energy. Use this sheet as a quick guide to refresh yourself about energy, waves, and the physical properties of sound.

 Glencoe has a great interactive video giving an introduction to all types of waves (including sound) and the types of energy they carry. <u>http://glencoe.mheducation.com/sites/dl/free/0078600499/161383/00053404.htmlsection=study-8</u>

Here is a helpful visual to remember some basic ways we can analyze sound waves:



• The *Sol pass* website has an excellent page describing the different types of energy: <u>http://www.solpass.org/science6-8-new/standard_ps6.html?section=study-3</u>

AND some excellent study guides explaining sound waves: <u>http://www.solpass.org/science4-5/sound/sound-standards.html?section=study-8</u> <u>http://www.solpass.org/science4-5/sound/print/5-2-sound-standards.pdf?section=study-8</u>

- The SOUNDRY is MY FAVORITE guide to studying sound! Here you can learn about the ear, ultrasound, physics, and the history of sound study: <u>http://schoolnet.org.za/PILAfrica/en/webs/19537/</u>
- Here is a video describing sound waves and their relationship to the air: <u>http://study.com/academy/lesson/what-is-sound-definition-wave-parameters-pitch-volume.html</u>
- The Science Classroom website has a whole series of pages dedicated to learning about sound waves and frequency: https://thescienceclassroom.wikispaces.com/Sound+Waves+and+Frequencies
- The Physics Classroom website hosts a very detailed discussion broken into 5 Lessons on Sound and Music: <u>http://www.physicsclassroom.com/class/sound</u>

Here is the page describing how Pitch and Frequency are related, as well as the speed of sound and the human ear: http://www.physicsclassroom.com/class/sound/u1112a.cfm