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6th-STEM

Math Domain: Ratios and Proportional Relationships 6.RP.2

Science: Standard 6-Describe the production of sound in terms of vibration of objects that create vibrations in other materials.

Language:

“Now Hear This!” from 4th grade cause & effect unit lexile 820

“The Sounds of Baseball?” lexile 1150

Read/Works.org

Sound Internet resources:

<http://resources.woodlands-junior.kent.sch.uk/revision/science/sounds.html>

<http://engineeringinteract.org>

<http://science.education.nih.gov/supplements/nih3/hearing/activities/lesson3.htm>

<http://www.bbc.co.uk/schools/scienceclips/ages/9_10/changing_sounds_fs.shtml>

<http://www.nidcd.nih.gov/health/education/decibel/pages/decibel.aspx>

<http://www.educationscotland.gov.uk/learningteachingandassessment/curriculumareas/sciences/supportmaterials/resources/>

Apps: Soniqmovie

 Voice changer plus

           Voice changer

Activities:

GarageBand--Sound Absorption

Have groups of students bring materials they think will be good for absorbing sound. Use a shoebox to place materials when recording.

 Use “Create a new podcast”

 Go to Tracks--add a new track, choose the instrumental track

 Record the resonator note without any absorption materials

 Prepare box with absorption materials and re-record sound

The students can see the visual representation of the difference in sound and they love the experiment and they understand what material will absorb sound. It is easy to do and it takes just one class period.