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| **Goal 1:**  Structure of the ear, the function of each and conditions that affect hearing  Image result for parts of the ear diagram icon | Read [“Hearing Sound” CK12 Flexbook.](https://www.ck12.org/book/CK-12-Physical-Science-For-Middle-School/r1/section/19.2/)  Update your note guide by answering the learning targets. | | | |
| Watch the two videos from the learning module learn more about the structure of the ear and the job of each [Video #1](https://youtu.be/0jyxhozq89g) and [Video #2](https://youtu.be/p3Oy4lodZU4) | | | |
| Choice A – [Quizlet Flashcards](https://quizlet.com/_3lyzd5) | | Choice B – [Interactive Labeling Activity](http://www.amplifon.com/web/uk/interactive-ear/index.html) | |
| Modeling the Ear Challenge – Find a partner from another area of the room and challenge them to a timed competition. Draw the ear and label each part, 5 times. See who completes the challenge first. | | | |
| Science Talks – The loser of the Model the Ear Challenge will begin by selecting a part of the ear and explaining to his/her partner the function. The winner will make give feedback about accuracy. Switch roles when done. | | | |
| Learn about hearing loss by selecting from the 2 choice to the right | Choice A – Watch [Video #1](https://youtu.be/pcGz7uwnPrs), [Video #2](https://youtu.be/az-5MSiXMGU) and [Video #3](https://youtu.be/2rhRo73F324) | Choice B - See what Hearing Loss Association of America has to say on their [website](http://www.hearingloss.org/content/types-causes-and-treatment) | Choice C – [Hearing Loss Simulator](http://www.dangerousdecibels.org/virtualexhibit/1whatsthatsound.html) |
| ***Enrichment Opportunity: Sound and Technology →*** | Watch [Video #1](https://youtu.be/3q4WduuWBws) | Watch [Video #2](https://youtu.be/j0ZsZSSSswo) | Think critically about how kids could take this idea and use it to their advantage? |
| Image result for assess icon | Check Up – Your goal for content mastery is 80% or better on the assessment | Choice A – Move to Goal #2 if you showed content mastery | Choice B – Practice labeling the parts of the ear with the [Interactive Quiz](https://www.purposegames.com/game/ear-diagram-quiz). Practice labeling the function of each part with the [Interactive Quiz](https://www.purposegames.com/game/the-human-ear-game) | Choice C – Find a peer or your teacher for small group remediation and review in preparation for credit recovery |
| **Goal 2:** Structure of the vocal cords, the function of each and conditions that affect the sound produced by vocal cords | Take 3-5 minutes for “Tabletop Discussions” to see what people know about the larynx, vocal cords and disorders. | | | |
| Step 1 – Read about the [larynx and vocals cords](http://mcdowellsoundlightwaves.weebly.com/uploads/2/1/2/4/21242264/larynx_and_vocal_cords_pdf.pdf) and update your note guide by answering the learning targets. | Step 2 – Look [here](https://wiki.kidzsearch.com/wiki/Larynx) for more information on each structure and voice disorders | Step 3 – Gross yourself out with  [Video #1](https://youtu.be/-XGds2GAvGQ) and [Video #2](http://thekidshouldseethis.com/post/22254893339) | Step 4 – Update your note guide. There is no assessment for this learning target. |
| **Goal 3:**  Mediums and Sound  Image result for sound waves icon | Read “The [Characteristics of Sound” CK12 Flexbook](https://www.ck12.org/book/CK-12-Physical-Science-For-Middle-School/r1/section/19.1/) to see how sound travels through different mediums and how sound is measured. Update your note guide by answering the learning targets. | | | |
| Step 1 – Watch [Video #1](https://youtu.be/_uMFZoL9YnM) and [Video #2](https://youtu.be/yF4cvbAYjwI) to see how sound travels through matter | Step 2 – Explore the [Interactive](http://interactive.knowitall.org/interactive/nasa/sound/how_sound_travels.html) on how travels through different types of matter | Step 3 – Watch the [video](https://youtu.be/iYM1yD7ATAg) to see how sound is measured using the terms frequency, pitch, amplitude and loudness (F-P-A-L). Update your note guide. | Step 4 – Download Enchantium’s “Musical Strings” augmented reality app and obtain the markers from your teacher. Explore the app and discuss your experience with your tabletop partners. |
| **Pick 2**  **→** | Choice A – Doppler Effect [Video #1](https://youtu.be/h4OnBYrbCjY) and [Video #2](https://youtu.be/z0EaoilzgGE) | Choice B – Check in with your teacher to experience the Doppler Effect app | Choice C – Explore the [simulation](https://interactives.ck12.org/simulations/physics/doppler-ducks/app/index.html) from CK12 Exploration Series on the Doppler Effect. Try a second [simulation](https://www.edumedia-sciences.com/en/media/183-doppler-effect) with a car and jet | Choice D – Read about the Doppler Effect using [Link #1](http://encyclopedia.kids.net.au/page/do/Doppler_effect) and [Link #2](http://www.physicsclassroom.com/class/waves/Lesson-3/The-Doppler-Effect) |
| Image result for assess icon | Check Up – Your goal for content mastery is 80% or better on the assessment | Choice A – Move to the study guide if you showed content mastery | Choice B – revisit previous steps or research information on your own | Choice C – Find a peer or your teacher for small group remediation and review in preparation for credit recovery |

**Quiz Preparations**

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| Image result for quiz icon | Step 1 - Spend 15 minutes working on filling in the appropriate answers to the study guide. DO NOT use your note guide or any other resource! | Step 2 – Spend another 10 minutes in Science Talks with your peers and note guide. Use the [answer key](http://mcdowellsoundlightwaves.weebly.com/sound-6p131.html) to check your answers and fill in missing responses or make necessary changes. | Step 3 – Play Quizizz in class and try to score 80% or better. Your teacher will provide you with the class code. | Step 4 - Take your quiz and post your answers to Edmodo. Your teacher will provide you with directions for credit recovery if you score below an 80%. |