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| **Goal 1:** Parts of a waveImage result for waves icon | *Rally Read* [“Waves Types” CK12 Flexbook](https://www.ck12.org/book/CK-12-Physical-Science-For-Middle-School/r1/section/18.1/) and [“Parts of a Wave” CK12 Flexbook](https://www.ck12.org/book/CK-12-Physical-Science-For-Middle-School/r1/section/18.2/). Update your note guide by answering the learning targets. |
| Choice A – [Quizlet Flashcards](https://quizlet.com/_3len6m) | Choice B – [Interactive Labeling Activity](http://mathxscience.com/waves.html) |
| Choice A – Find a shoulder partner and sketch/label a transverse wave and a longitudinal wave. Compare and contrast your drawings and their labels to clarify any misconceptions. | Choice B – Use *Rally Coach* as you and a partner have a *Science Talk* on the parts of transverse and compressional/longitudinal waves. Be sure to clean up any misconceptions before switching roles. Click [here](file:///H%3A%5CCCES%20Science%5C6.P.1.1%20-%20Label%20Wave%20Parts%20Partner%20Activity.docx) for access to the activity. |
| **Goal 2:** Behaviors of a waveImage result for behavior of waves | Watch the two videos from the learning module to see how waves behave. Take a one-minute *timed pair share each*, to debrief on what you learned after each video [Video #1](https://youtu.be/MBspYQm3MV8) and [Video #2](https://youtu.be/fKzWM1Oa1ng) |
| Choice A – [Quizlet Flashcards](https://quizlet.com/_3ozw97) | Choice B – [PhET Waves Simulation](https://phet.colorado.edu/en/simulation/wave-interference) and [PBS Learning Activity](https://unctv.pbslearningmedia.org/resource/npe11.sci.phys.energy.lightbehaviors/light-wave-behaviors/#.WbgFB8iGPIU) |
| Science Talks – Find a shoulder partner and discus waves behaviors. Be sure to include reflection, refraction, absorption and diffraction. Update your note guide. |
| Image result for assess icon | Check Up – Your goal for content mastery is 80% or better on the assessment  | Choice A – Move to Goal #3 if you showed content mastery | Choice B – Use the [Waves PowerPoint](http://mcdowellsoundlightwaves.weebly.com/uploads/2/1/2/4/21242264/waves_powerpoint_in_pdf_format.pdf) to remediate and build fluency  | Choice C – Find a peer or your teacher for small group remediation and review in preparation for credit recovery |
| **Goal 3:** Earthquakes: S-waves & P-wavesImage result for earthquake waves icon | *Rally Read* about P-waves and S-waves [**here**](https://www.ck12.org/earth-science/Seismic-Waves/lesson/Seismic-Waves-HS-ES/) and update your note guide. |
| **PICK TWO**  |
| Choice A – [Video #1](https://youtu.be/_7Efz_iLHzE) and [Video #2](https://youtu.be/KZaI4MEWdc4) | Choice B – [Interactive #1](http://www.classzone.com/books/earth_science/terc/content/visualizations/es1009/es1009page01.cfm) and [Interactive #2](https://www.classzone.com/books/earth_science/terc/content/visualizations/es1002/es1002page01.cfm?chapter_no=visualization) | Choice C – [Additional Reading](http://aspire.cosmic-ray.org/Labs/SeismicWaves/) with interactive questions | Choice D – [Quizlet Flashcards](https://quizlet.com/_3lfcew) |
| Image result for assess icon | Check Up – Your goal for content mastery is 80% or better on the assessment  | Choice A – Move to Goal #4 if you showed content mastery | Choice B – Use the [SlideShare](https://www.slideshare.net/templep79/seismic-waves-28007953) presentation to remediate and build fluency  | Choice C – Find a peer or your teacher for small group remediation and review in preparation for credit recovery |
| **Goal 4:** Light waves travel as transverse wavesImage result for electromagnetic spectrum icon | Read “The [Electromagnetic Spectrum” CK12 Flexbook](https://www.ck12.org/book/CK-12-Physical-Science-For-Middle-School/section/21.3/) to see how light waves travel as transverse waves using the electromagnetic spectrum. Update your note guide by answering the learning targets. |
| Step 1 – Take 2-3 minutes for a Science talk and share what you wrote on your note guide | Step 2 – Make any changes or additions after both people have taken a turn | Step 3 – Create an acronym saying to help you remember the order for the waves on the EMS and share with at least 3 people | Step 4 – Select the acronym that is the catchiest and write your saying 10 times each to help you better recall the order |
| Image result for assess icon | Check Up – Your goal for content mastery is 80% or better on the assessment  | Choice A – Move to Goal #5 if you showed content mastery | Choice B –[Labeling Game #1](https://www.purposegames.com/game/electromagnetic-spectrum-quiz) and [Interactive](http://earthguide.ucsd.edu/eoc/special_topics/teach/sp_climate_change/p_emspectrum_interactive.html) | Choice C – Find a peer or your teacher for small group remediation and review in preparation for credit recovery |
| **Goal 5:** Sound: Image result for sound 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 the [video](https://youtu.be/_uMFZoL9YnM) 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) | Step 4 – Discuss Goal 5 material with your shoulder partner and update your note guide |
| 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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|  | 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/uploads/2/1/2/4/21242264/6.p.1.1_waves_study_guide_-_key.pdf) 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%. |