Waves: Day 15 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Core: \_\_\_\_\_ Date: \_Tuesday, April 25th\_\_\_\_

*\*\*Today’s Learning Check will be scanned at the END of class and will be taken for a grade.\*\**

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| --- | --- | --- |
| 1. How many sections do we divide the human ear into?a. oneb. twoc. three | 2. This part of the ear can be compared to a satellite, because it “funnels” sound into the ear:a. Pinnab. Eardrumc. Ear Canal  | 3. These three tiny bones make up the inner ear:a. Hammer, Anvil, Eardrumb. Hammer, Anvil, Stirrupc. Anvil, Eardrum, Stirrup |



**E A R**



* The human ear: the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ humans use to detect sound.

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* + The ear is divided into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sections: the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ear, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ear, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ear.
	+ Each part of the ear serves a specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the task of detecting and interpreting \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The outer ear:
	+ The outer ear is similar to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dish that collects radio waves.
	+ The curved formation on the outside (the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) helps funnel sound down the \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ to the eardrum.
* The middle ear:
	+ Transfers the energy of a sound wave by vibrating the \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ found there.
	+ The three bones are the: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ These are the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bones in your body! Together, they’re about the size of an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* How Sound Travels in the Middle Ear:
	+ When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ waves reach the middle ear, they cause the eardrum to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ This vibration causes the three \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to vibrate.
	+ These vibrations are transformed into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/pressure waves in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ear.

C) [Challenge] Create a flip-book that shows how a sound wave travels through the ear. (This will be finished tomorrow.)

B) [Practice] With a partner, log into DiscoveryEd. Search the *interactive video* “Human Hearing.”

A) [Review] Watch the BrainPop video, “Hearing.” Then, with your partner, watch the video again and complete the quiz.