Unit 4, Module 20

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|  |  |  | 7  C | O | N | D | U | C | T | I | O | N | H | E | A | R | 8  I | N | G | L | O | S | S |  |  |  |  |  |  |
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|  |  |  | 9  S | E | N | S | O | R | I | N | E | U | R | A | L | H | E | A | R | I | N | G | L | O | S | S |  |  |  |
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| **Across**  **2.** Number of complete wavelengths that pass point in given time  **4.** Sense or act of hearing  **6.** Fluid-filled tube in the inner ear  **7.** Hearing loss caused by damage to the mechanical system that conducts sound waves to the cochlea  **9.** Hearing loss caused by damage to the cochlea's receptor cells or to the auditor nerves; also called nerve deafness  **10.** Device for converting sounds into electrical signals and stimulating the auditory nerve through electrodes threaded into the cochlea. | **Down**  **1.** Theory that the rate of nerve impulses traveling up the auditory nerve matches the frequency of a tone  **3.** Chamber between the eardrum and cochlea containing three tiny bones (hammer, anvil, and stirrup) that concentrate the vibrations of the eardrum on the cochlea's oval window.  **5.** Tones experienced highness or lowness, depends on frequency  **8.** Innermost part of the ear, containing the cochlea, semicircular canals, and vestibular sacs |