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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Sound

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|  |  |  |  |  | 2  H |  |  |  |  |  |  |  | 3  P | I | T | C | H |  |  |
|  |  |  |  |  | A |  |  |  |  |  |  |  |  |  |  | O |  |  |  |
|  | 4  C | 5  O | M | P | R | E | S | S | I | O | N |  | 6  I |  |  | U |  |  |  |
|  |  | C |  |  | M |  |  |  |  |  |  |  | N |  |  | S |  |  |  |
|  |  | T |  | 7  D | O | P | P | L | E | R | E | F | F | E | C | T |  |  |  |
|  |  | A |  |  | N |  |  |  |  |  |  |  | R |  |  | I |  |  |  |
|  |  | V |  |  | Y |  |  |  |  |  | 8  D |  | A |  |  | C |  |  |  |
|  |  | E |  |  |  | 9  L | O | U | D | N | E | S | S |  |  | S |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | C |  | O |  |  |  |  |  |  |
|  |  |  | 10  R | A | R | E | F | A | C | T | I | O | N |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | B |  | I |  |  |  |  |  |  |
|  |  |  | 11  I | N | T | E | R | F | E | R | E | N | C | E |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | L |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 12  B |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 13  F | U | N | D | A | M | E | N | T | A | L | H | A | R | M | O | I | C | S |
|  |  |  |  |  |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 14  U | L | T | R | A | S | O | N | I | C |  |  |  |  |  |
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| **Across**  **3.** highness or lowness of a sound. depends on frequency of sound wave  **4.** area where sound waves are pushed together  **7.** change in frequency of sound caused by movement of either the source, the detector or both  **9.** intensity of sound as percieved by the ear and interpereted by the brain  **10.** area where sound waves are pushed apart  **11.** combination of two or more sound waves  **13.** the lowest frequency of sound that resonates in an instrument  **14.** frequencies that are above 20,000Hz | **Down**  **1.** control of noise and vibrations that cause noise  **2.** produced when overtones have frequencies that are whole number multiples of the fundamental  **5.** eight notes on the musical scale  **6.** frequencies below 20Hz  **8.** most common unit of measurement for sound level  **12.** two frequencies that are nearly identical interfere to produce oscillating high and low sound levels |