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

Waves unit

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|  |  |  |  |  |  | 1  R |  |  |  | 2  L |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 3  A | M | P | L | I | T | U | D | E |  |  |  |  |  |
|  |  |  |  |  |  | R |  |  |  | G |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | E |  |  |  | H |  |  |  |  |  |  | 4  M |  |  |
|  |  |  |  | 5  R | E | F | L | E | C | T | I | O | N |  |  |  | E |  |  |
|  |  |  | 6  W |  |  | A |  |  |  |  |  |  |  |  | 7  T |  | D |  |  |
|  | 8  M |  | A |  |  | C |  |  |  |  |  |  | 9  S |  | R |  | I |  | 10  L |
|  | E |  | V |  |  | T |  |  |  | 11  R |  |  | E |  | A |  | U |  | O |
|  | C |  | E |  | 12  D | I | F | 13  F | R | A | C | T | I | O | N |  | M |  | N |
|  | H |  | L |  |  | O |  | R |  | D |  |  | S |  | S |  |  |  | G |
| 14  W | A | V | E |  |  | N |  | E |  | I |  |  | M |  | V |  | 15  T |  | I |
|  | N |  | N |  |  |  |  | C |  | O |  |  | I |  | E |  | R |  | T |
|  | I |  | G |  |  |  |  | U |  |  |  |  | C |  | R |  | O |  | U |
|  | C |  | T |  |  | 16  C | R | E | S | T |  |  |  |  | 17  S | O | U | N | D |
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|  |  | 18  S | P | E | E | D |  | Y |  | 19  P | E | R | I | O | D |  |  |  | A |
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| **Across**  **3.** maximum displacement from rest position ; shows the amount of energy  **5.** occurs when a wave bounces off a surface that it cannot pass through; upside down  **12.** a change in the direction of a wave when the wave finds an obstacles or an edge , such as an opening  **14.** A disturbance that transfers energy from place to place  **16.** highest point of a wave  **17.** waves caused by vibrations that are transmitted through matter. example of longitudinal  **18.** how fast an object moves  **19.** the time it takes for one cycle  **20.** the part of a longitudinal wave where the particles of the medium are close together | **Down**  **1.** the part of longitudinal wave where the particles of the medium are far apart  **2.** Part of the Em spectrum . Electromagnetic radiation  **4.** material that carries waves ; solid ,liquid and gas  **6.** the distance between one crest or trough of a wave and next  **7.** A wave in which the particles vibrate at right angles to the direction of wave  **8.** a wave that require a medium to travel  **9.** waves of energy traveling through rock  **10.** A wave in which the particles move parallel to the path of the wave  **11.** electromagnetic waves used for communication on computers , phones ,etc.  **13.** the number of complete waves that pass a given point in a certain amount of time  **15.** Lowest point of a wave |