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

Energy and Heat

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | 1  F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  B |  |  |  |
|  |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3  C |  |  |  |  | O |  |  |  |
|  |  |  | H |  |  |  |  |  | 4  E | N | E | R | G | Y | T | R | A | N | S | F | O | R | M | A | T | I | O | N |  |
|  |  |  | R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N |  |  |  |  | L |  |  |  |
|  |  |  | E |  |  |  |  |  |  |  | 5  P |  |  |  |  |  |  |  | 6  E |  | S |  |  |  |  | I |  |  |  |
|  |  |  | N |  |  |  |  | 7  C |  |  | O |  |  | 8  T |  |  | 9  C | O | N | V | E | C | T | I | O | N |  |  |  |
|  |  |  | H |  |  |  |  | E |  |  | T |  |  | E |  | 10  F |  |  | E |  | R |  |  |  |  | G |  |  |  |
|  |  |  | E |  |  |  |  | L |  |  | E |  |  | M |  | R |  |  | R |  | V |  |  |  |  | P |  |  |  |
|  |  |  | I |  |  |  |  | S |  |  | N |  |  | P |  | E |  |  | G |  | A |  |  |  |  | O |  |  |  |
|  |  |  | T |  |  |  | 11  K | I | N | E | T | I | C | E | N | E | R | G | Y |  | T |  |  |  |  | I |  |  |  |
|  |  |  | S |  |  |  |  | U |  |  | I |  |  | R |  | Z |  |  |  |  | I |  |  |  |  | N |  |  |  |
|  |  |  | C |  |  |  |  | S |  | 12  R | A | D | I | A | T | I | O | N |  |  | O |  |  |  |  | T |  |  |  |
|  |  |  | A |  |  |  |  | S |  |  | L |  |  | T |  | N |  |  |  |  | N |  |  |  |  |  |  |  |  |
|  | 13  K | E | L | V | I | N | S | C | A | L | E |  |  | U |  | G |  |  |  |  | O |  |  |  |  |  |  |  |  |
|  |  |  | E |  |  |  |  | A |  |  | N |  |  | R |  | P |  |  |  |  | F |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | L |  |  | E |  |  | E |  | O |  |  |  |  | E |  |  |  |  |  |  |  |  |
|  | 14  A | B | S | O | L | U | T | E | Z | E | R | O |  |  |  | I |  |  | 15  C | O | N | D | U | C | T | I | O | N |  |
|  |  |  |  |  |  |  |  |  |  |  | G |  |  |  |  | N |  |  |  |  | E |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Y |  | 16  H | E | A | T |  |  |  |  | R |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | G |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 17  T | H | E | R | M | A | L | E | N | E | R | G | Y |  |  |  |  |  |  |  |  |

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| **Across**  **4.** a change from one form of energy to another  **9.** a type of heat transfer that only occurs in fluids, such as water and air  **11.** the energy that results from the motion of an object  **12.** the transfer of energy by electromagnetic waves  **13.** a temperature scale scientists use  **14.** the lowest temperature possible (0 Kelvins)  **15.** transfers heat from one particle of matter to another within an object or between 2 objects  **16.** the transfer of thermal energy from a warmer object to a cooler object  **17.** the total kinetic and potential energy of all the particles in an object | **Down**  **1.** a temperature scale the US uses  **2.** the temperature at which a liquid boils  **3.** the scientific principle that energy is neither lost nor created  **5.** the energy that results from the position or shape of an object  **6.** the ability to do work or cause change  **7.** a temperature scale most countries use  **8.** the measure of how hot or cold something is compared to a freezing point  **10.** the temperature at which a solid freezes |