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

Heat and Energy Transfers

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  D |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  V |  |  | E |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 3  K |  | 4  E | V | A | P | O | R | A | T | I | O | N |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | I |  |  |  |  |  |  |  |  |  |  | L |  |  | S |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | N |  |  |  |  | 5  W |  |  |  | 6  T |  | U |  |  | I |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  | A |  | 7  G |  | H |  | M |  |  | T |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | T |  | 8  T | H | E | R | M | A | L | E | N | E | R | G | Y |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | I |  |  |  |  | M |  | S |  | R |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | C |  |  |  |  | E |  |  |  | M |  |  |  |  | 9  C |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | T |  | 10  M |  |  | R |  | 11  C |  | O |  |  |  |  | O |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 12  H | E | A | T |  |  | 13  C | O | L | D | E | R |  |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  | S |  |  | 14  C |  | N |  | Y |  |  |  |  | D |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O |  | S |  |  | O |  | D |  | N |  | 15  J |  |  | E |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | R |  |  |  | 16  I | N | S | U | L | A | T | O | R |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Y |  | 17  L |  |  | V |  | C |  | M |  | U |  |  | S |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 18  S | O | L | I | D |  | E |  | T |  | I |  | L |  |  | A |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | F |  | Q |  |  | C |  | I |  | C |  | E |  |  | T |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | M |  | U |  |  | T |  | O |  | S |  | S |  |  | I |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 19  R | A | D | I | A | T | I | O | N |  |  |  |  |  |  | O |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | T |  | D |  |  | O |  |  |  |  |  |  |  |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | T |  |  | 20  C | O | N | D | U | C | T | O | R |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 21  T | E | M | P | E | R | A | T | U | R | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Across**  **4.** Adding heat to a liquid causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **8.** Measures the total kinetic energy of particles  **12.** The transfer of energy from a warmer object to a colder one  **13.** \_\_\_\_\_\_\_\_\_ objects are more dense  **16.** A material that does not transfer heat well  **18.** State of matter that has tightly packed particles that vibrate  **19.** How thermal energy transfers as electromagnetic waves  **20.** A material that transfers heat well  **21.** Measures the average kinetic energy of particles | **Down**  **1.** The comparison of how much matter there is in a certain amount of space  **2.** The amount of space an object takes up  **3.** Theory that states all particles that make up matter are constantly in motion  **5.** \_\_\_\_\_\_\_\_\_\_\_ objects are less dense  **6.** Study of heat movement  **7.** State of matter that has spread out particles that move freely and quickly  **9.** Removing heat from a gas causes \_\_\_\_\_\_\_\_\_\_\_\_\_  **10.** The amount of matter in an object  **11.** How thermal energy transfers between solid objects touching  **14.** How thermal energy transfers through liquids and gases  **15.** Unit used to measure energy  **17.** State of matter that has packed particles that move around |