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

Endothermic and Exothermic Reactions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | 1  E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O |  |  |  |  |  |  |  |  |  |  |  | 2  I |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | M |  |  |  |  |  |  |  |  |  | 3  N |  | N |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  | E |  | M |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | A |  |  |  |  | 4  E |  |  |  |  | W |  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | N |  |  |  |  | X |  |  |  |  | S |  | A |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | S |  |  |  |  | O |  |  |  |  | U |  | N |  |  |  |  |  |  |  |
|  |  |  |  | 5  P | R | O | D | U | C | T | S |  |  |  | T |  |  |  |  | B |  | S |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O |  |  |  |  | H |  |  |  |  | S |  | G |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 6  R | E | L | E | A | S | E | D |  |  |  | T |  | O |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | R |  |  |  |  | A |  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | I |  |  |  |  | M |  |  | 7  L |  | N |  | S |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 8  E | N | D | O | T | H | E | R | M | I | C | R | E | A | C | T | I | O | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | , |  |  |  |  | C |  |  | S |  | E |  | N |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | L |  |  | 9  M | O | R | E |  | S |  |  |  | T |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | I |  |  |  |  | E |  |  |  |  |  |  | O |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | K |  |  |  |  | A |  |  | 10  B | O | N | D | S |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | E |  |  |  |  | C |  |  |  |  |  |  | O |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 11  E | N | E | R | G | Y |  | T |  |  |  |  |  |  | M |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | I |  |  |  |  |  |  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 12  B | U | R | N | I | N | G | W | O | O | D |  |  |  |  |  | T |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | T |  |  |  |  | N |  |  |  |  |  |  | H |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |  |  |  |  |  |  |  | I |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | H |  |  |  |  |  |  |  |  |  |  |  | N |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 13  V | I | N | E | G | A | R | A | N | D | B | A | K | I | N | G | S | O | D | A |  |  |  |
|  |  |  |  |  |  |  |  |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Across**  **5.** Chemical reactions involve forming new bonds on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side  **6.** Energy is \_\_\_\_\_\_\_\_\_\_\_\_ when new bonds form in the products  **8.** This type of reaction takes in heat, to decrease the temperature \_\_\_\_\_\_\_\_\_  **9.** In an endothermic reaction, it takes \_\_\_\_\_\_\_ to break bonds  **10.** chemical reactions involve breaking \_\_\_\_\_\_\_\_  **11.** It takes \_\_\_\_\_\_\_\_\_\_\_\_ to break bonds  **12.** An example of an exothermic reaction is \_\_\_\_\_\_\_\_\_  **13.** An example of an endothermic reaction is \_\_\_\_\_\_\_\_\_\_ | **Down**  **1.** How can you remember what exothermic means  **2.** How can you remember what endothermic means?  **3.** Chemical reactions occur when a \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ is formed through a reaction  **4.** This type of reaction gives off heat, to increase the temperature\_\_\_\_\_\_\_\_\_  **7.** In an exothermic reaction, it takes \_\_\_\_\_\_\_\_ energy to break bonds of the reactants |

   Exothermic Reaction       Endothermic Reaction       Burning wood       vinegar and baking soda       bonds       products       energy       released       less       more       new substance       in means goes into something       Exo means to exit, like exits heat