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

Thermochemistry

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  T |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  M |  |
|  |  |  |  |  |  |  |  |  |  |  | 3  E | N | T | H | A | L | P | Y |  |  |  |  |  |  |  |  |  | O |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |  | 4  E |  |  | L |  |
|  |  |  |  |  |  |  |  |  |  | 5  C | A | L | O | R | I | M | E | T | R | Y |  |  |  |  | N |  |  | A |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | M |  |  |  |  |  |  |  |  |  |  | D |  |  | R |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 6  H |  | O |  |  |  |  |  |  |  |  |  |  | O |  |  | H |  |
|  |  |  |  |  | 7  H | E | A | T | O | F | R | E | A | C | T | I | O | N |  |  |  |  |  |  | T |  |  | E |  |
|  |  |  |  |  |  |  |  |  |  |  |  | A |  | H |  |  |  |  |  |  |  |  |  |  | H |  |  | A |  |
|  |  |  |  |  |  |  | 8  H |  |  |  |  | T |  | E |  |  |  |  |  |  |  |  |  |  | E |  |  | T |  |
|  |  |  |  |  |  | 9  H | E | A | T | O | F | C | O | M | B | U | 10  S | T | I | O | N |  |  |  | R |  |  | O |  |
|  |  |  |  |  | 11  C |  | A |  |  |  |  | A |  | I |  |  | Y |  |  |  |  |  |  |  | M |  |  | F |  |
|  |  |  |  |  | A |  | T |  |  |  |  | P |  | S |  |  | 12  S | U | R | R | O | U | N | D | I | N | G | S |  |
|  |  |  |  |  | L |  |  |  |  |  |  | A |  | T |  |  | T |  |  |  |  |  |  |  | C |  |  | O |  |
|  |  |  | 13  E | X | O | T | H | E | R | M | I | C | P | R | O | C | E | S | S |  |  |  |  |  | P |  |  | L |  |
|  |  |  |  |  | R |  |  |  |  |  |  | I |  | Y |  |  | M |  |  |  |  |  |  |  | R |  |  | U |  |
|  | 14  S | P | E | C | I | F | I | C | H | E | A | T |  |  |  |  |  |  |  |  |  |  |  |  | O |  |  | T |  |
|  |  |  |  |  | M |  |  |  |  |  |  | Y |  |  |  |  |  |  |  |  |  |  |  |  | C |  |  | I |  |
|  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | E |  |  | O |  |
|  |  |  |  |  | T |  |  |  |  |  |  | 15  M | O | L | A | R | H | E | A | T | O | F | F | U | S | I | O | N |  |
|  |  |  |  |  | E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |  |  |
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| **Across**  **3.** a system at constant pressure's heat content  **5.** measurement for heat flowing in and out of a system for physical and chemical processes  **7.** in a chemical equation it is the exact enthalpy change  **9.** when completely burning a mole of a substance, it is the heat of the reaction taking place  **12.** everything else that is not the focus  **13.** gives off heat into the surrroundings  **14.** the total heat required to increase the temperature of 1g of the substane 1 degree C  **15.** the heat absorption of a solid melting at a constant rate | **Down**  **1.** changes in energy that happen in chemical reactions and in changes of state  **2.** dissolution of a mole that cause enthalpy change  **4.** takes in heat from the surroundings  **6.** the total heat required in order to increase an object's temperature by 1 degree C  **8.** energy transfer due to a difference in temperature  **10.** the focus of attention  **11.** measuring device for the increase or decrease of heat in physical or chemical processes |