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

Thermochemistry Vocab.

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|  |  |  |  |  |  |  |  | 4  M |  |  |  |  |  |  |  |  |  |  | D |  |  |  |  |  |  | E |  |  |  |
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|  |  |  |  | 8  C | A | L | O | R | I | M | E | T | R | Y |  | 9  M |  |  | E |  |  | H |  |  |  | A |  |  |  |
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|  |  |  |  | 10  J | O | U | L | E |  |  |  | A |  | 11  E |  | L |  |  | M |  |  | R |  |  |  | P |  |  |  |
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|  |  |  |  |  |  | 12  E | N | T | H | A | L | P | Y | O | F | R | E | A | C | T | I | O | N |  |  | T |  |  |  |
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|  |  |  |  |  |  |  |  | R |  |  | 14  S | P | E | C | I | F | I | C | 15  H | E | A | T |  | 16  E | N | E | R | G | Y |
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|  | 19  L | A | W | O | F | C | O | N | S | E | R | V | A | T | I | O | N | O | F | E | N | E | R | G | Y |  |  |  |  |
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| **Across**  **3.** stored energy  **5.** unit of heat energy  **8.** Process of measuring the amount of heat released or absorbed during chemical reactions  **10.** unit of energy in the SI system  **12.** enthalpy change that occurs with a system when 1 mole of matter is transformed by a chemical reaction  **13.** measure of molecular movement  **14.** The amount of heat needed to raise temp. of one gram of a substance  **16.** The ability to do work  **17.** Object process of measuring heat of chemical reactions  **18.** energy due to motion  **19.** You can not create or destroy energy  **20.** one mole of compounds is completely bonded by oxygen gas | **Down**  **1.** when a reaction absorbs heat  **2.** form of potential energy that can be absorbed or released during a chemical reaction  **4.** amount of heat necessary to boil 1 mole of a substance at its boiling point  **6.** change where heat is absorbed or released through a chemical reaction  **7.** The study of energy transfer in the form of heat during reactions and physical changes  **9.** amount of heat to melt 1 mole of a substance  **11.** when a reaction releases heat  **15.** energy that can be transferred due to the molecular movement |