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Thermochemistry Vocab.

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|  |  |  |  |  |  |  |  | 4M |  |  |  |  |  |  |  |  |  |  |  D |  |  |  |  |  |  |  E |  |  |  |
|  |  |  |  |  |  |  |  |  O |  |  |  |  |  |  |  | 5C |  A |  L |  O |  R |  I |  E |  |  |  |  M |  |  |  |
|  |  |  |  |  |  |  |  |  L |  |  |  | 6E |  |  |  |  |  |  |  T |  |  |  |  |  |  |  I |  |  |  |
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|  |  |  |  | 8C |  A |  L |  O |  R |  I |  M |  E |  T |  R |  Y |  | 9M |  |  |  E |  |  |  H |  |  |  |  A |  |  |  |
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|  |  |  |  | 10J |  O |  U |  L |  E |  |  |  |  A |  | 11E |  |  L |  |  |  M |  |  |  R |  |  |  |  P |  |  |  |
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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 |