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

Thermochemistry Crossword Puzzle

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|  |  |  |  |  |  | 1C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2H |  E |  A |  T |  O |  F |  R |  E |  A |  C |  T |  I |  O |  N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 3C |  H |  E |  M |  I |  C |  A |  L |  P |  E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |  |  | 4S |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  V |  |  |  |  |  |  |  |  |  | 5F |  U |  S |  I |  O |  N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  A |  | 6E |  |  |  | 7C |  |  |  |  |  |  |  |  L |  |  |  | 8T |  |  |  |  |  |
|  |  |  |  |  |  |  T |  |  N |  |  |  |  A |  |  |  |  |  |  |  |  I |  |  |  |  H |  |  |  |  |  |
|  |  |  |  |  |  |  I |  |  D |  |  |  |  L |  |  |  | 9V |  | 10M |  |  D |  | 11H |  |  E |  |  | 12C |  |  |
|  |  |  |  |  |  |  O |  |  O |  |  |  |  O |  |  | 13C |  A |  L |  O |  R |  I |  M |  E |  T |  R |  Y |  |  O |  |  |
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|  |  |  |  | 14E |  X |  O |  T |  H |  E |  R |  M |  I |  C |  |  |  O |  |  A |  |  I |  |  T |  |  O |  |  |  D |  |  |
|  |  |  |  |  |  |  F |  |  E |  |  |  |  M |  |  |  |  R |  |  R |  |  C |  |  |  |  C |  |  |  E |  |  |
|  |  |  |  |  |  |  E |  |  R |  | 15S |  P |  E |  C |  I |  F |  I |  C |  H |  E |  A |  T |  |  |  H |  |  |  N |  |  |
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|  |  |  | 21H |  E |  A |  T |  O |  F |  C |  O |  M |  B |  U |  S |  T |  I |  O |  N |  |  |  |  |  |  |  |  |  |  |  |

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| **Across****2.** Known as ΔH (3 words)**3.** Energy in chemical bonds (3 words)**5.** The molar heat of \_\_\_ is theheat absorbed by a solid object as it melts **13.** Measurement of the heat flow into or out of the system**14.** When the system loses heat the reaction is...**15.** Known as "c" in equations (2 words)**17.** Amount of heat needed to increase the temperature of an object by 1 degree Celsius (2 words)**18.** Everything in the universe**19.** (H) ΔH measures the change in this**20.** The study of heat transfer during chemical reactions and changes in state**21.** Heat of reaction for burning one mole of a substance (3 words) | **Down****1.** The law of \_\_\_ states energy cannot be created or destroyed (3 words)**4.** The molar heat of \_\_\_ is the heat lost by one mole when a liquid solidifies**6.** When the system gains heat the reaction is...**7.** Insulated object used in calorimetry experiments**8.** A chemical equation that includes the enthalpy change as either a reactant or product**9.** The molar heat of \_\_\_ is the amount of heat needed to vaporize a liquid**10.** The change in H caused by dissolution (4 words)**11.** (q) Always flows from warm to cold**12.** The molar heat of \_\_\_ is the amount of heat released when vapor condenses**16.** The reaction or substance changing |