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

Thermochemistry

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