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Thermochemistry

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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 |