Thermochemistry and Law of Conservation of Energy Crossword Puzzle

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| **Across**  **3.** Measuring instrument for measuring temperature  **5.** The molar heat of \_\_\_ is the heat lost by one mole when a liquid solidifies  **8.** A material that does not conduct heat well  **9.** (H) ΔH measures the change in this  **10.** Known as "c" in equations (2 words)  **11.** Separated from its surroundings by either physical or mental boundary  **13.** Measurement of the heat flow into or out of the system  **14.** (q) Always flows from warm to cold  **15.** Known as ΔH (3 words)  **18.** What cannot be created or destroyed, but it can CHANGE FORMS  **20.** The study of heat transfer during chemical reactions and changes in state  **21.** Sum of an objects kinetic energy and potential energy.  **22.** When the system loses heat the reaction is...  **23.** A form of energy that travels through space as waves.  **24.**  When the system gains heat the reaction is...  **25.** The change in H caused by dissolution (4 words) | **Down**  **1.** Energy of radiant objects such as fire.  **2.** Unit of energy  **4.** The molar heat of \_\_\_ is the amount of heat released when vapor condenses  **6.** The law of \_\_\_ states energy cannot be created or destroyed (3 words)  **7.** The mechanical energy that a body has in storage by virtue of its position  **12.** Energy in the form of motion  **16.** Form of energy of nuclear reactions  **17.** A measure of the average kinetic energy of all the particles in an object.  **19.** The flow of negatively charge electrons results in the formation of \_\_\_\_\_\_\_ energy |