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Thermochemistry

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Across

- **5.** the rest of the universe that isnt reacting
- **10.** a reaction that releases heat energy
- 11. a form of energy arising from the random motion of the molecules of bodies, which may be transferred by conduction, convection, or radiation
- **13.** the specific portion of the universe that is being studied
- **14.** The energy change accompanying any transformation is the same whether the process occurs in one step or many

15. process that involves rearrangement of the molecular or ionic structure of a substance

Down

- 1. law: energy cannot be created or destroyed in an isolated system
- **2.** the degree of disorder or randomness in the system
- **3.** the entropy of any isolated system always increases
- **4.** a reaction that absorbs heat energy
- **6.** the heat required to raise the temperature of the unit mass by one degree

- 7. branch of chemistry concerned with the quantities of heat evolved or absorbed during chemical reactions
- **8.** The energy change accompanying any transformation is equal and opposite to energy change accompanying the reverse process
- **9.** thermodynamic quantity equivalent to the total heat content of a system
- **12.** the ability to do work