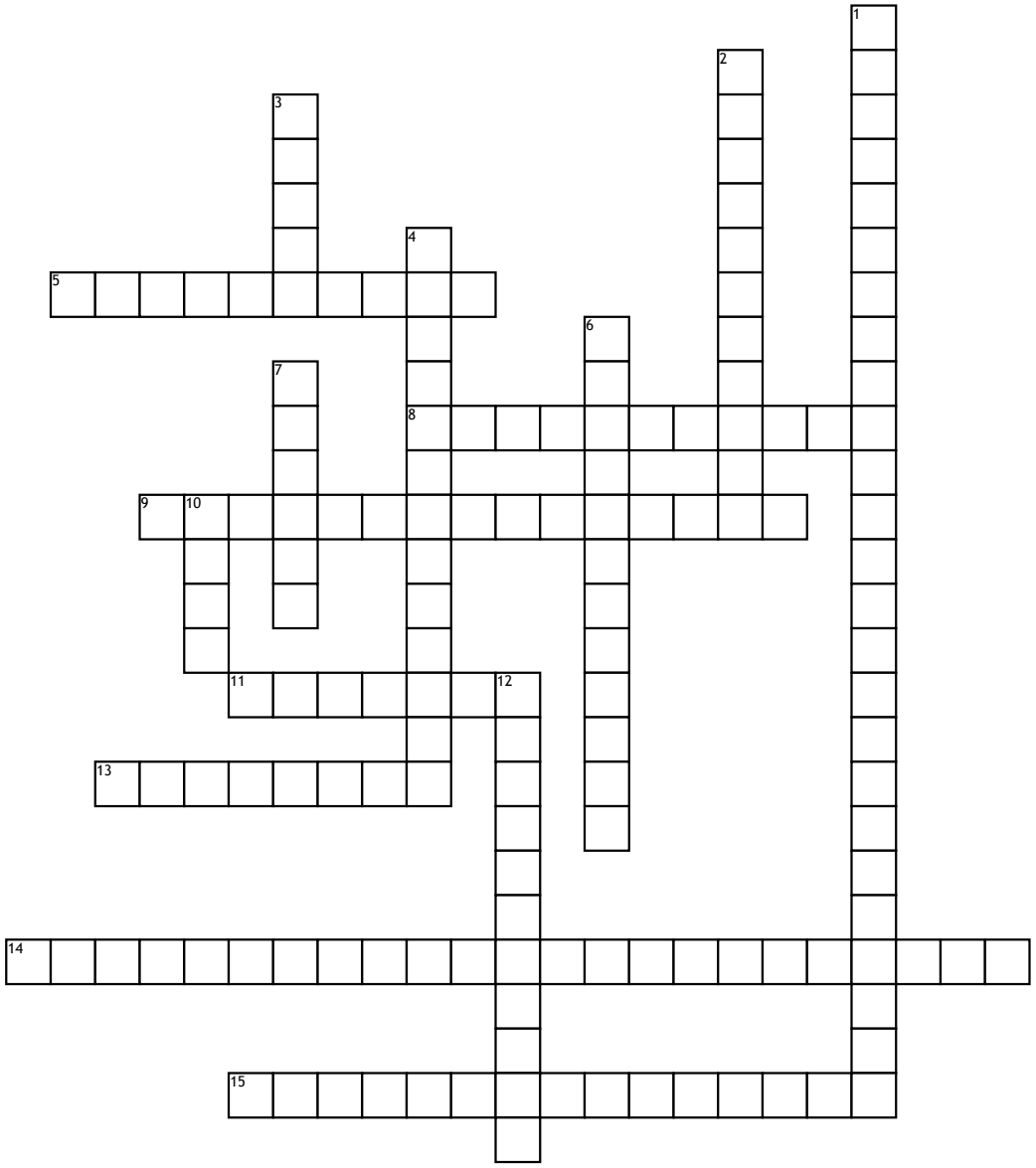
Name: _____ Date: _____

Thermochemistry vocab activity



Across

5. (of a reation or process) accompained by the release of heat

8. the degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch

9. the branch of chemistry concerned with the quantities of heat evolved or absorbed during chemical reactions

11. the amount of heat required at a pressure of one atmosphere to raise the temperature of one gram of water one degree Celsius that is equal to about 4.19 joules

13. a thermodynamic quantity equivalent to the total heat content of a system. It is equal to the internal energy of the system plus the product of pressure and volume.

14. the energy stored in the chemical bonds of a substance

15. the energy possessed by a body by virtue of its position relative to others, stresses within itself, electric charge, and other factors

Down

1. Total energy of an isolated system remains constant; it is said to be conserved over time

2. an apparatus for measuring the amount of heat involved in a chemical reaction or other process

3. the SI unit of work or energy, equal to the work done by a force of one newton when its point of application moves one meter in the direction of action of the force, equivalent to one 3600th of a watt-hour.

4. energy which a body possesses by virtue of being in motion

6. the heat required to raise the temperature of the unit mass of a given substance by a given amount (usually one degree).

7. the property of matter and radiation which is manifest as a capacity to perform work (such as causing motion or the interaction of molecules)

10. the quality of being hot; high temperature

12. (of a reaction or process) accompanied by or requiring the absorption of heat.