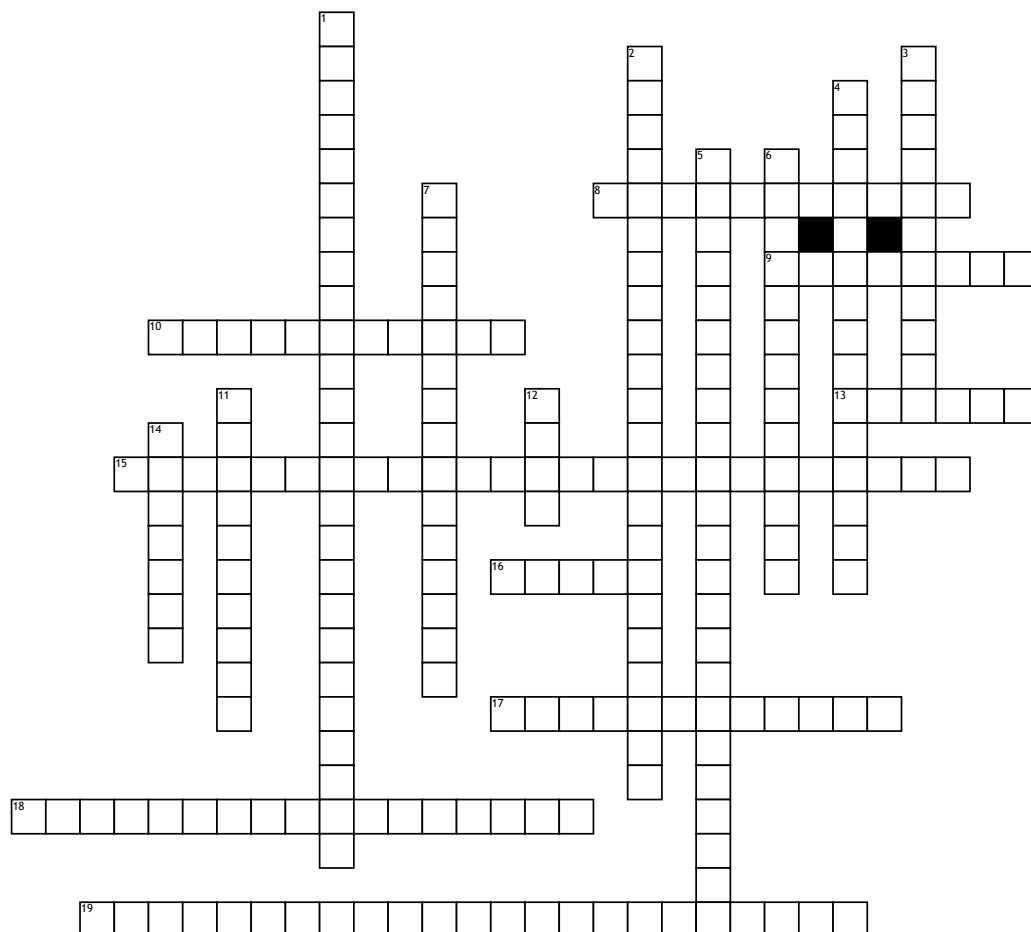


Name: _____

Thermochemistry Vocabulary



Across

8. A device used to measure the heat change or the capacity of chemical reactions or physical changes
 9. The heat absorbed (or released) by the material through a chemical reaction or by external heat transfer
 10. Accompanied by or requiring the absorption of heat
 13. The ability to do work
 15. The total energy of an isolated system remains constant
 16. A unit of energy in the SI system
 17. The heat required to raise the temperature of the unit mass of a given substance by a given amount (usually one degree)

Word Bank

Molar heat of fusion	calorie
endothermic	exothermic
Thermochemistry	Joule
Molar heat of vaporization	heat
Law of conservation of energy	Kinetic energy

18. The amount of heat necessary to melt (or freeze) 1.00 mole of a substance at its melting point

19. The energy stored in the chemical bonds of a substance

Down

1. The total energy released as heat when a substance undergoes complete combustion with oxygen under standard conditions
 2. The change in the enthalpy of a chemical reaction that occurs at a constant pressure
 3. The degree of intensity of heat present in a substance or object
 4. The energy possessed by a body virtue of its position relative to other, stresses within itself, electric charge, and other factors

5. The amount of heat necessary to boil (or condense) 1.00 mole of a substance at its boiling point

6. The energy an object possesses due to its motion

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

11. Formed from its constituent elements with a net release of heat

12. Thermal energy transferred from a hotter system to a cooler system that are in contact

14. A unit of energy or heat variously defined

Energy	enthalpy heat of combustion
Enthalpy heat of reaction	enthalpy
Potential Energy	Temperature
calorimeter	Specific heat
Chemical potential energy	