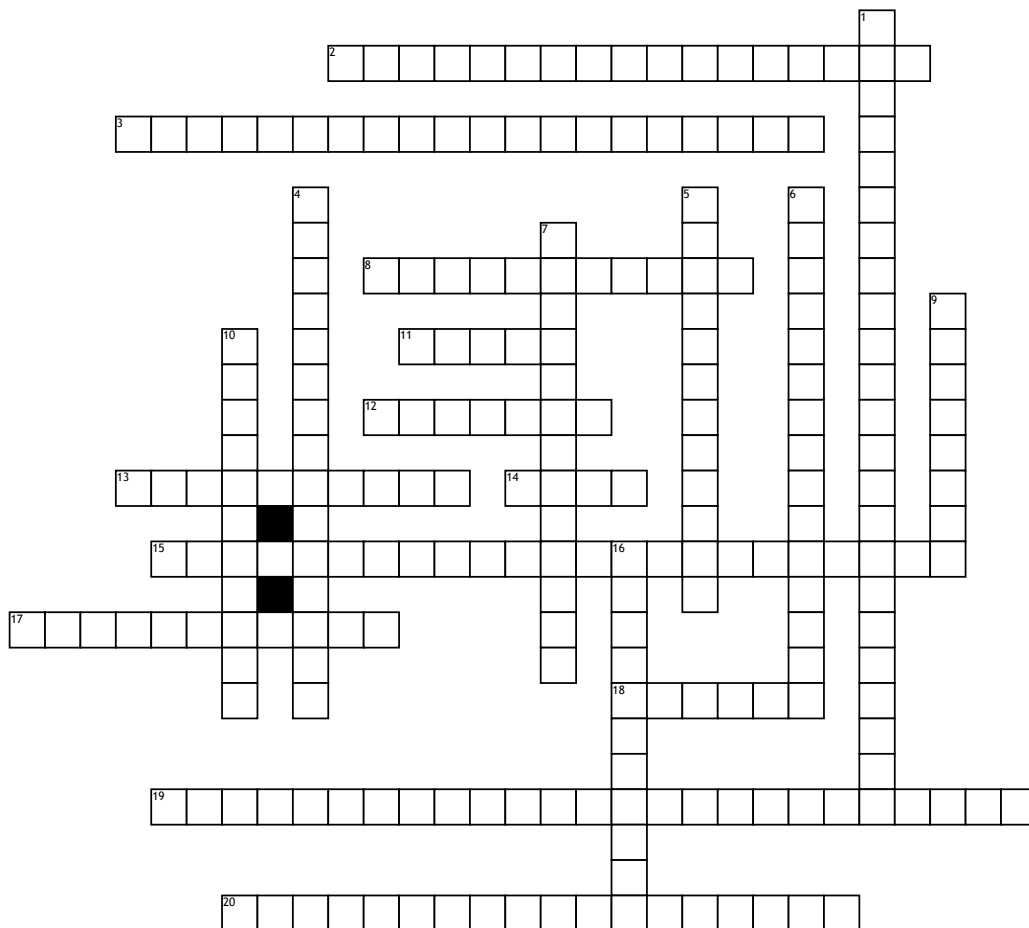


Thermochemistry Vocabulary



Across

- 2. the amount of heat required to melt one mole of a solid at its melting point with no change in temperature and is usually expressed in kJ/mol.
- 3. when one mole of the compound is burned completely in oxygen under standard conditions, and with everything in its standard state
- 8. an apparatus for measuring the amount of heat involved in a chemical reaction or other process.
- 11. 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.
- 12. the energy needed to raise the temperature of 1 gram of water through 1 °C
- 13. A chemical reaction that releases energy, usually in the form of heat.
- 14. the quality of being hot; high temperature

- 15. the energy stored in the chemical bonds of a substance
- 17. an apparatus for measuring the amount of heat involved in a chemical reaction or other process
- 18. power derived from the utilization of physical or chemical resources, especially to provide light and heat or to work machines
- 19. a law of science that states that energy cannot be created or destroyed, but only changed from one form into another or transferred from one object to another
- 20. occurs in a system when matter is transformed by a given chemical reaction, when all reactants and products are in their standard states

Down

- 1. the amount of heat necessary to boil
- 4. the branch of chemistry concerned with the quantities of heat evolved or absorbed during chemical reactions

- 5. the heat required to raise the temperature of the unit mass of a given substance by a given amount
- 6. the energy possessed by a body by virtue of its position relative to others, stresses within itself, electric charge, and other factors
- 7. energy that a body possesses by virtue of being in motion
- 9. 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
- 10. A chemical reaction in which energy is absorbed
- 16. 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

Word Bank

- | | | | |
|-------------------------------|-----------------|----------------------|----------------------|
| Enthalpy of combustion | Temperature | exothermic | Specific heat |
| Law of conservation of energy | Thermochemistry | Calorimeter | Potential energy |
| Chemical potential energy | Kinetic energy | Molar heat of fusion | Heat |
| Molar heat of vaporization | Calorimeter | Energy | Enthalpy of reaction |
| Joule | Enthalpy | Calorie | endothermic |