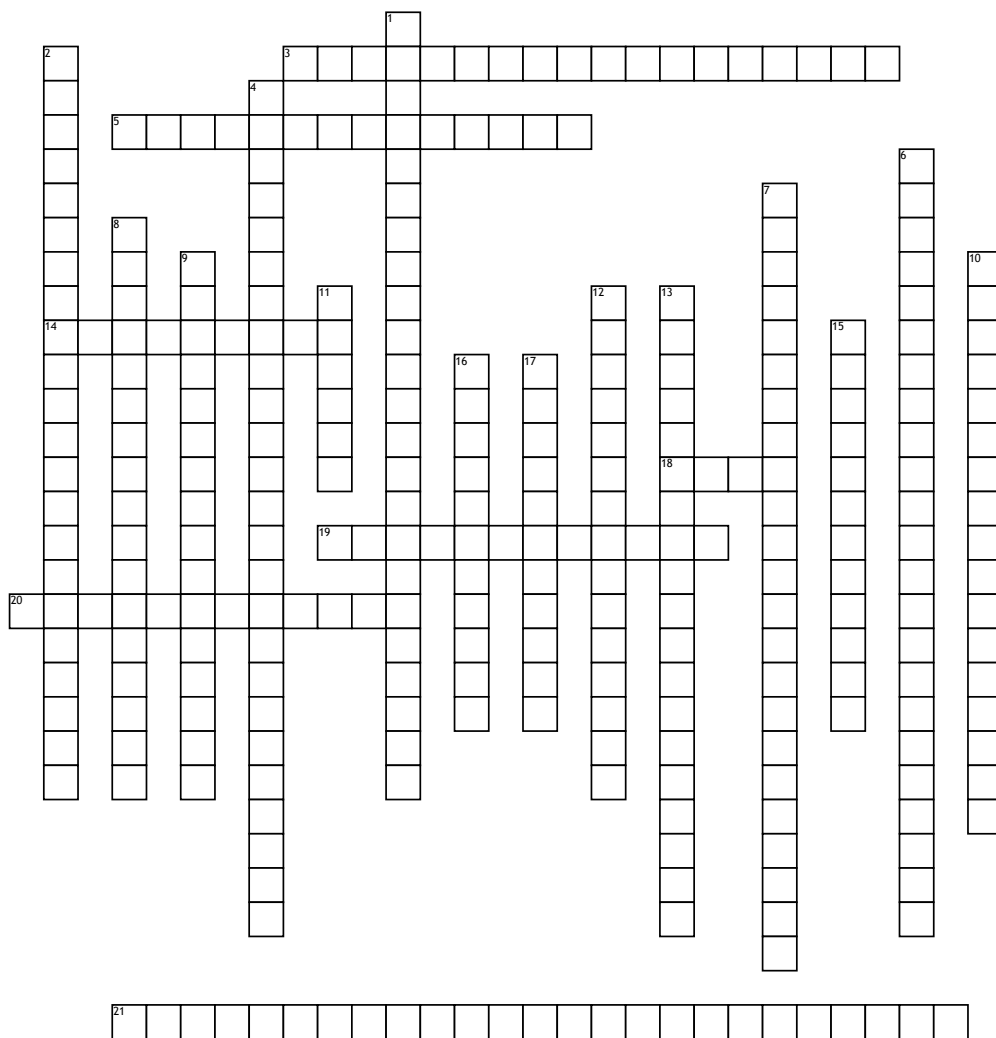


Name: _____

Date: _____

Thermochemistry Crossword



Across

3. describes a process in which the system absorbs energy from its surroundings; usually, but not always, in the form of heat

5. change in the enthalpy of a chemical reaction that occurs at a constant pressure

14. thermodynamic quantity equivalent to the total heat content of a system it's equal to the internal energy of the system plus the product of pressure and volume

18. quality of being hot; high temperature

19. heat required to raise the temperature of the unit mass of a given substance by a given amount

20. everything else; rest of the universe

21. total energy of an isolated system remains constant

Down

1. heat evolved when a vapor changes to a liquid

2. balanced stoichiometric chemical equation that includes the enthalpy change

4. heat lost when one mole of a liquid solidifies at a constant temperature

6. energy stored in chemical bonds of a substance

7. amount of heat necessary to boil (or condense)

8. one that releases, "gives out" energy or heat

9. the energy released as heat when a compound undergoes complete combustion with oxygen under standard conditions

10. an important part of energy calculations since it tells you how much energy is needed to melt each mole of substance

11. set of substances and energy that is being studied

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

13. amount of heat released (or absorbed) when one mole of a particular substance is dissolved in a large volume of a particular solvent

15. number of heat units needed to raise the temperature of a body by one degree

16. science or act of measuring changes in state variables of a body for the purpose of deriving the heat transfer associated with changes of its state due

17. an apparatus for measuring the amount of heat involved in a chemical reaction

Word Bank

enthalpy

thermochemistry

molar heat of fusion

specific heat

exothermic process

molar heat of solution

surroundings

calorimetry

calorimeter

molar heat of vaporization

law of conservation of energy

system

molar heat of condensation

heat

heat of combustion

chemical potential energy

heat capacity

heat of reaction

molar heat of solidification

endothermic process

thermochemical equation