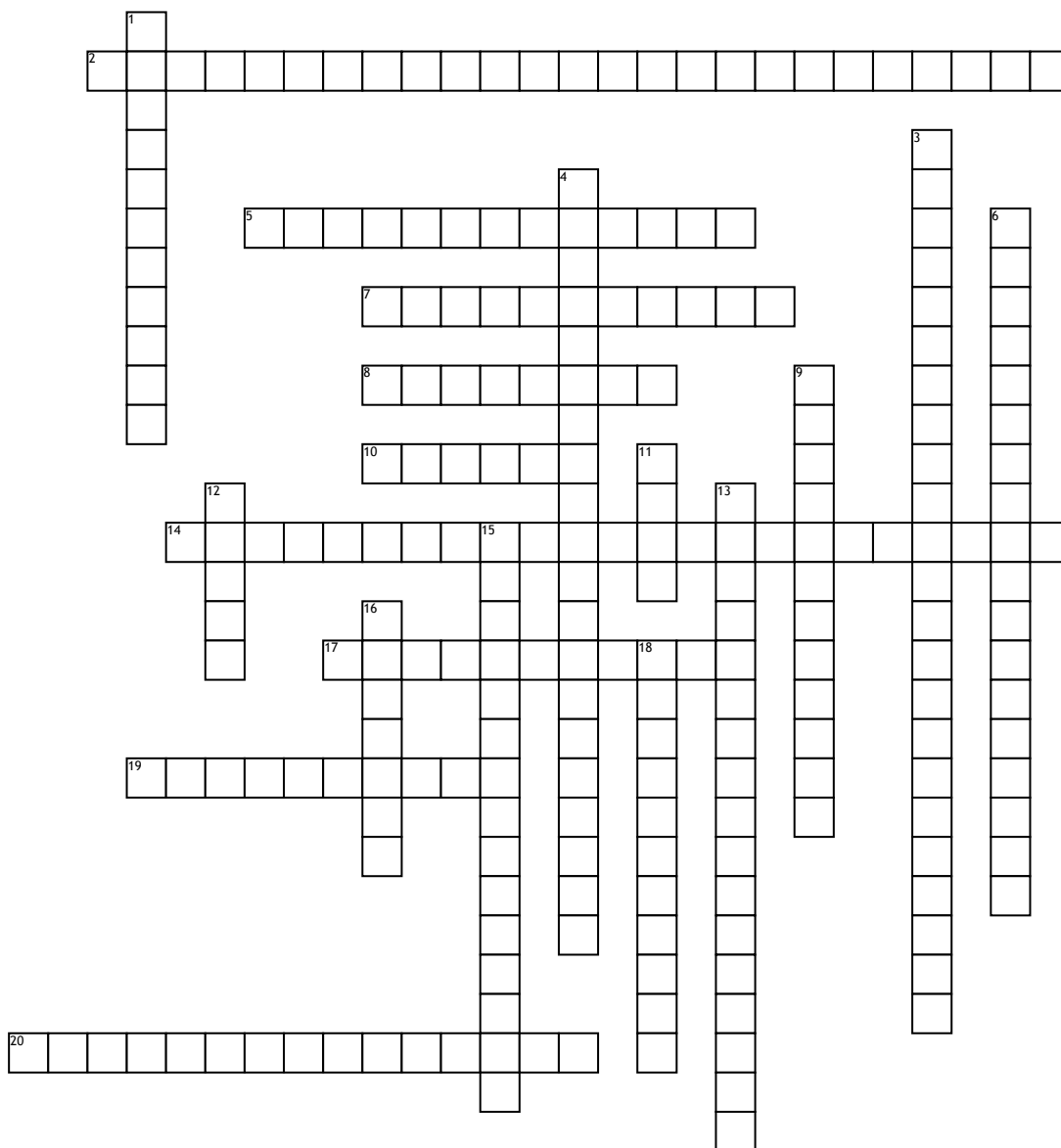


Name: _____

Date: _____

Thermochemistry



Across

- 2. states that the total energy of an isolated system remains constant
- 5. energy which a body possesses by virtue of being in motion
- 7. the absorption of heat or energy
- 8. total heat content of a system
- 10. the ability to do work
- 14. how much energy is needed to boil each mole of substance
- 17. an apparatus for measuring the amount of heat involved in a chemical reaction
- 19. the release of heat or energy
- 20. energy possessed by a body by virtue of its position relative to others

Down

- 1. science measuring changes in state variables of a body for the purpose of deriving the heat transfer associated with changes of its state due
- 3. energy that can be absorbed or released due to a change of the particle number of the given species, in a chemical reaction or phase transition
- 4. enthalpy change when 1 mole of a substance burns under standard state conditions
- 6. enthalpy change that occurs in a system when matter is transformed by a given chemical reaction

- 9. the heat required to raise the temperature of the unit mass of a given substance by a given amount
- 11. the quality of being hot
- 12. the SI unit of work or energy
- 13. how much energy is needed to melt each mole of a substance
- 15. The branch of chemistry concerned with the quantities of heat evolved or absorbed during chemical reactions.
- 16. a measure of energy usually used for food
- 18. measure of how hot or cold something is