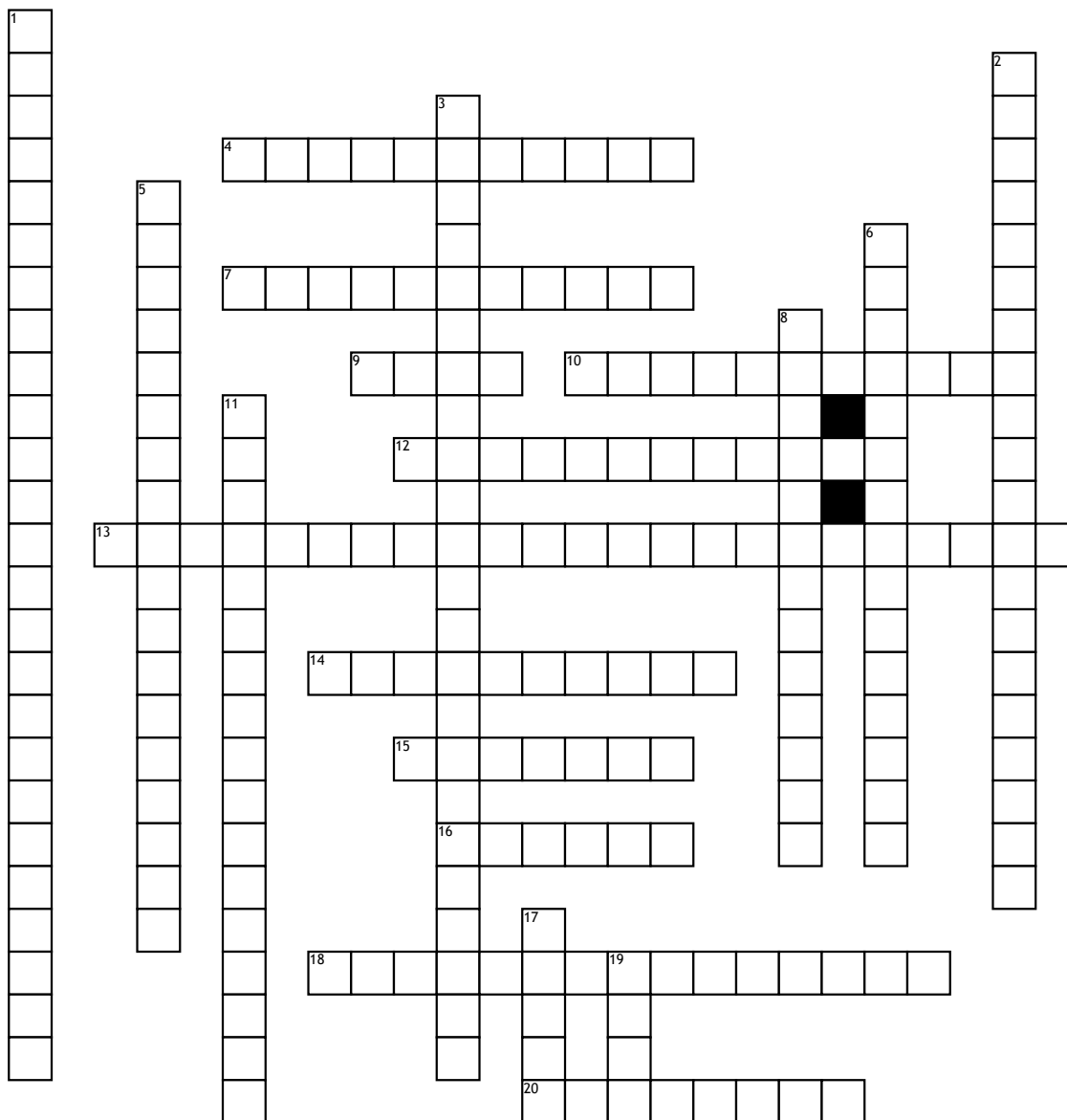


Thermochem Vocab



Across

4. A reaction that sucks energy in from around it
7. Device for measuring the heat involved in a chemical reaction
9. Indicates the direction of energy flowing
10. Measuring the amount of heat transferred
12. The heat required to raise 1 gram of a given substance by 1 degree (different for different substances)
13. Heat necessary to vaporise one mole of a substance
14. A reaction that releases energy

15. The energy needed to raise 1 gram of water by 1 degree

16. What force is needed to do work?

18. What is the branch of chemistry that deals with how heat is absorbed/emitted during reactions?

20. Total heat content of a system

Down

1. Energy can be neither destroyed nor created

2. The Enthalpy change when 1 mole of a substance is completely burned in air at 298K and 1 bar of pressure.

3. Form of potential energy from the chemical bonds of a molecule

5. The Enthalpy change that occurs when one mole of a substance undergoes a chemical reaction

6. Energy of Position

8. Energy of Motion

11. How much energy is needed to melt 1 mole of a substance

17. The energy needed to raise 1 gram of a substance by 1 degree (equivalent to 1000 calories)

19. The total energy from the vibration of all the molecules in a substance