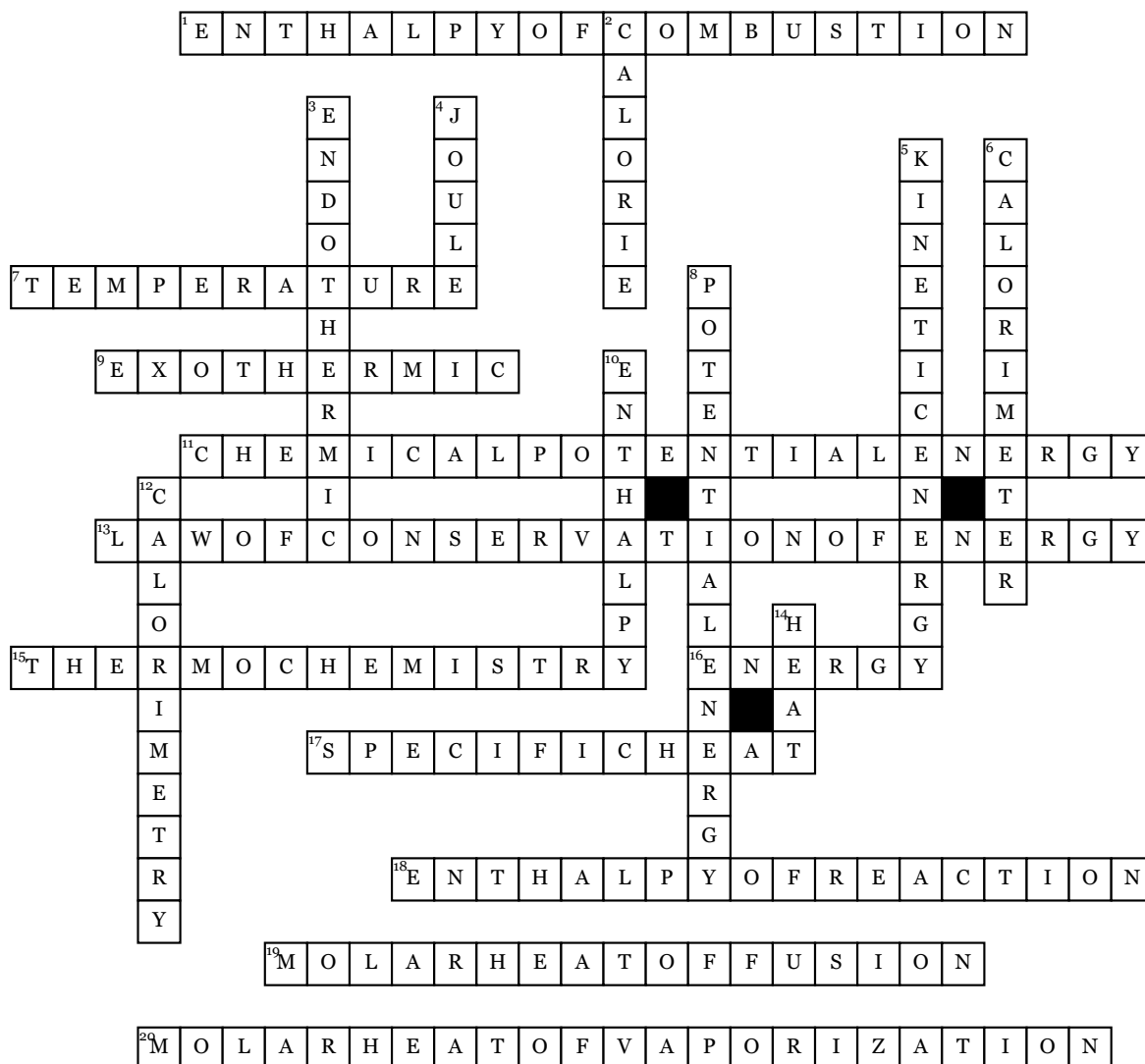


Thermochemistry



Across

1. enthalpy change when 1 mole of a compound is completely burnt in Oxygen gas at 298K and 1 bar pressure
7. measure of movement of molecules; ONLY movement
9. releases heat (feels cold)
11. a quantity that determines transport of matter from one phase to another
13. can't create nor destroy energy
15. study of energy transfer in the form of heat during reactions
16. ability to do work (end up somewhere different than where you started)

17. number of calories required to raise the temperature of 1 gram of a substance 1 degree Celsius
18. enthalpy change occurring in a system when one mole of matter is changed by a chemical reaction
19. amount of heat necessary to melt (or freeze) 1.00 mole of a substance at its melting point
20. amount of heat necessary to boil (or condense) 1.00 mole of a substance at its boiling point

Down

2. an amount of heat exactly 4.1840 Joules (Cal)
3. absorbs heat (feels hot)
4. standard unit of work or energy

5. energy due to motion
6. used to measure quantities of heat
8. stored/unused energy
10. the internal energy of a system plus the product of the pressure and volume of the system
12. measurement of the quantity of heat exchanged
14. total energy that can be transferred due to molecular movement