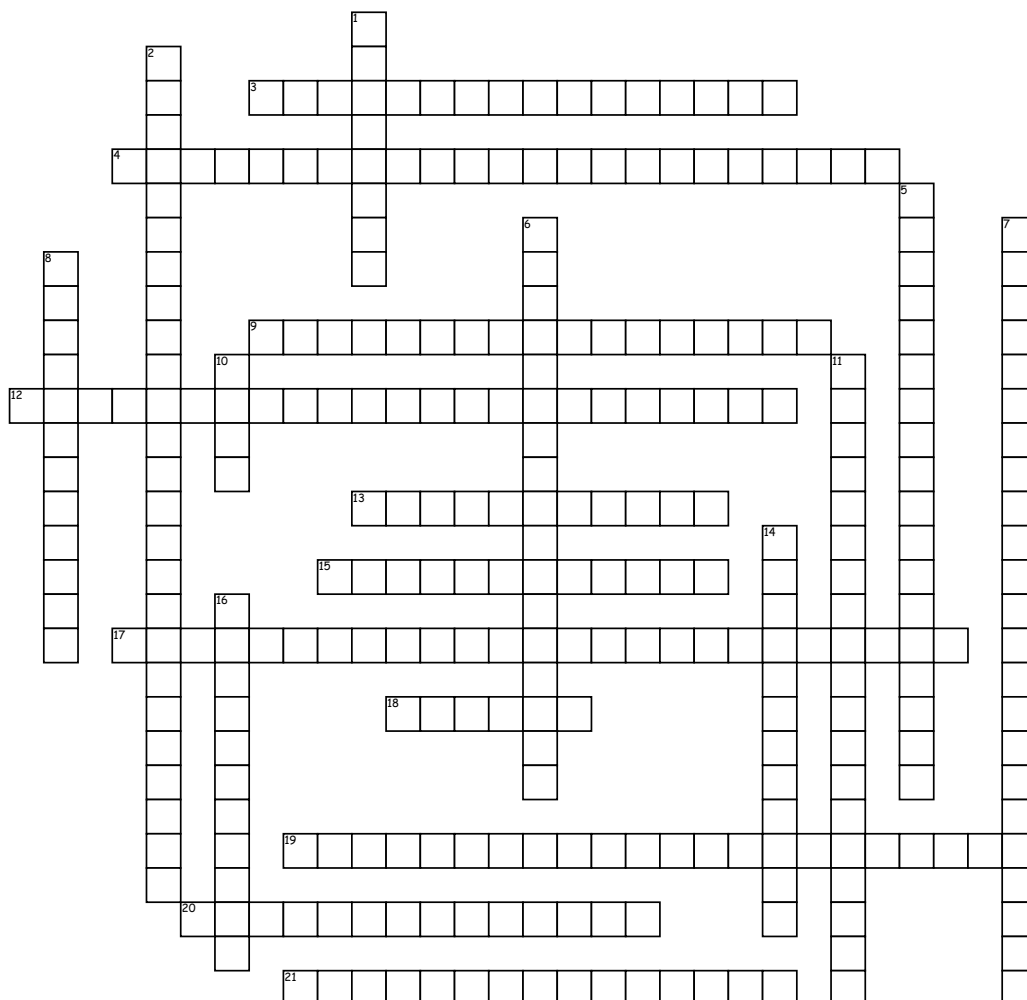


# Thermochemistry Crossword Puzzle



## Across

3. amount of heat given off when an item is completely burned

4. energy need to vaporize liquid at boiling point

9. energy absorbed when an item melts to a liquid

12. energy removed to convert gas to liquid

13. the science of measuring heat

15. heat needed to raise the temperature of something

17. energy removed to melt a solid

18. surroundings that can be as large as a school bus or as small as a water bottle

19. transfer of energy so that we can see if the reaction is exothermic or endothermic

20. heat given off or absorbed at constant pressure

21. study of energy or heat because of chemical reactions

## Down

1. heat flow elements at constant pressure

2. an area that is isolated from its surroundings resulting in the total energy of the area to be preserved

5. absorbed heat

6. released heat

7. energy storage in substances because of their chemical bonds

8. the environment

10. energy transferred from one object to another because of temperature differences

11. energy released or absorbed as something is dissolved in solvent

14. energy absorbed when an item melts to a liquid

16. a device used to measure quantities of heat generated

## Word Bank

endothermic process

molar heat of condensation

molar heat of vaporization

exothermic process

molar heat of fusion

thermochemical equation

calorimeter

molar heat of solidification

surroundings

heat

heat capacity

calorimetry

enthalpy

molar heat of solution

heat of reaction

law of conservation of energy

heat of combustion

specific heat

system

thermochemistry

chemical potential energy