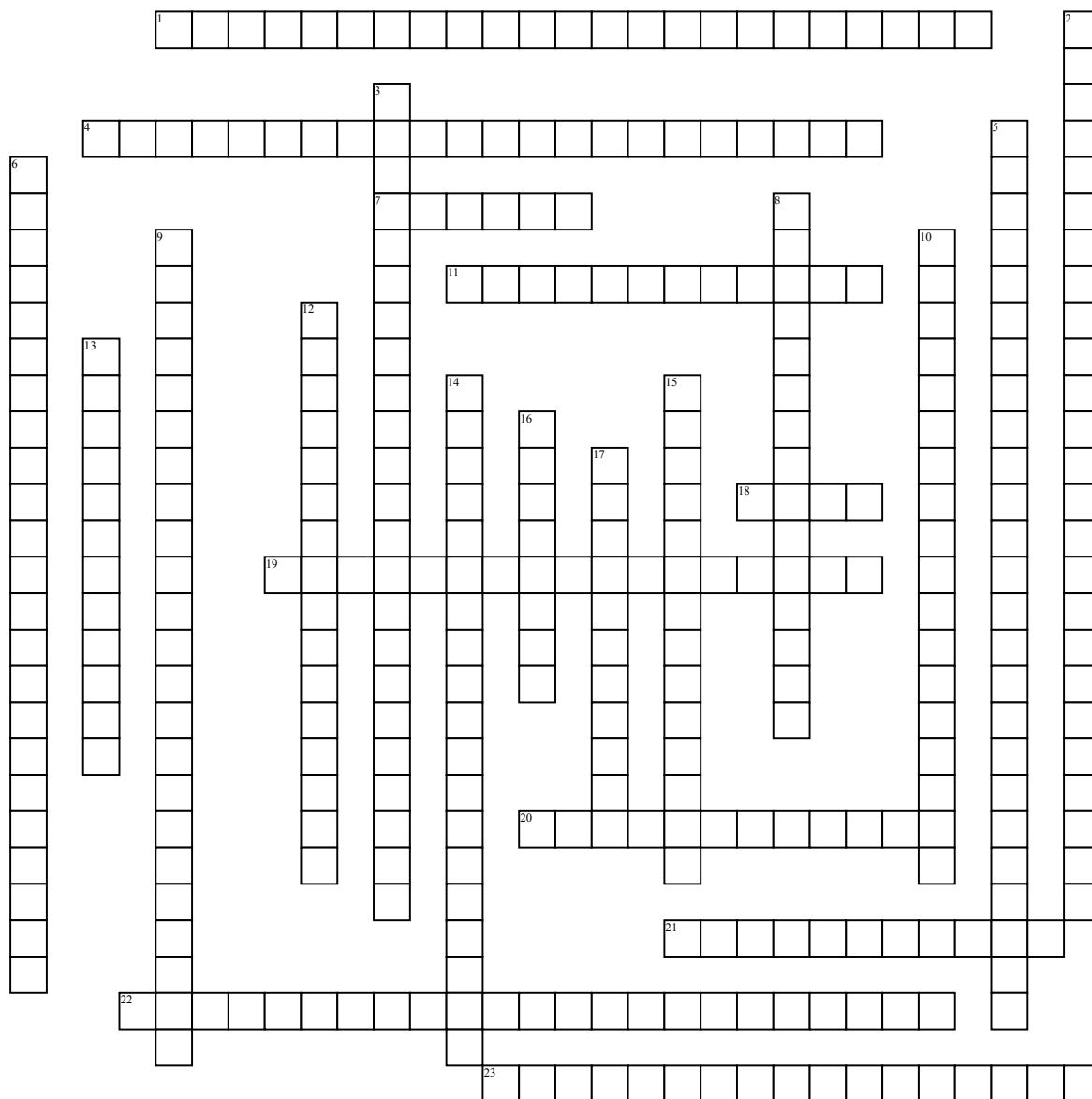


# Chemistry Crossword



## Across

1. Energy stored in chemical bonds.
4. A chemical equation that includes the enthalpy change.
7. A part of the universe on which you focus your attention.
11. The amount of heat needed to increase the temperature of 1g of a substance 1 C; also called specific heat capacity.
18. Energy that transfers from one object to another because of a temperature difference between the objects.
19. The amount of heat absorbed by one mole of a solid substance as it melts to a liquid at a constant temperature.
20. Everything in the universe outside of the system.
21. The precise measurement of heat flow out of a system for chemical and physical processes.

22. The amount of heat absorbed by one mole of a liquid as it vaporizes at a constant temperature.

23. A process that releases heat to its surroundings.

## Down

2. The amount of heat lost by one mole of a liquid as it solidifies at a constant temperature.
3. If you add two or more thermochemical equations to give a final equation, then you also add the heats of reaction to give the final heat of reaction.
5. In any chemical or physical process, energy is neither created nor destroyed.
6. The change in enthalpy that accompanies the formation of one mole of a compound from its elements with all substances in their standard states at 25 C.
8. The study of energy changes that occur during chemical reactions and changes in state.

9. The amount of heat released by one mole of a solid substance as it condenses to a liquid at a constant temperature.

10. A process that absorbs heat from the surroundings.

12. The heat of reaction for the complete burning of one mole of a substance.

13. The amount of heat needed to increase the temperature of an object exactly.

14. The enthalpy change caused by the dissolution of one mole of a substance.

15. The enthalpy change for a chemical equation exactly as it is written.

16. The heat content of a system at constant pressure.

17. An insulated device used to measure the absorption or release of heat in chemical or physical processes.