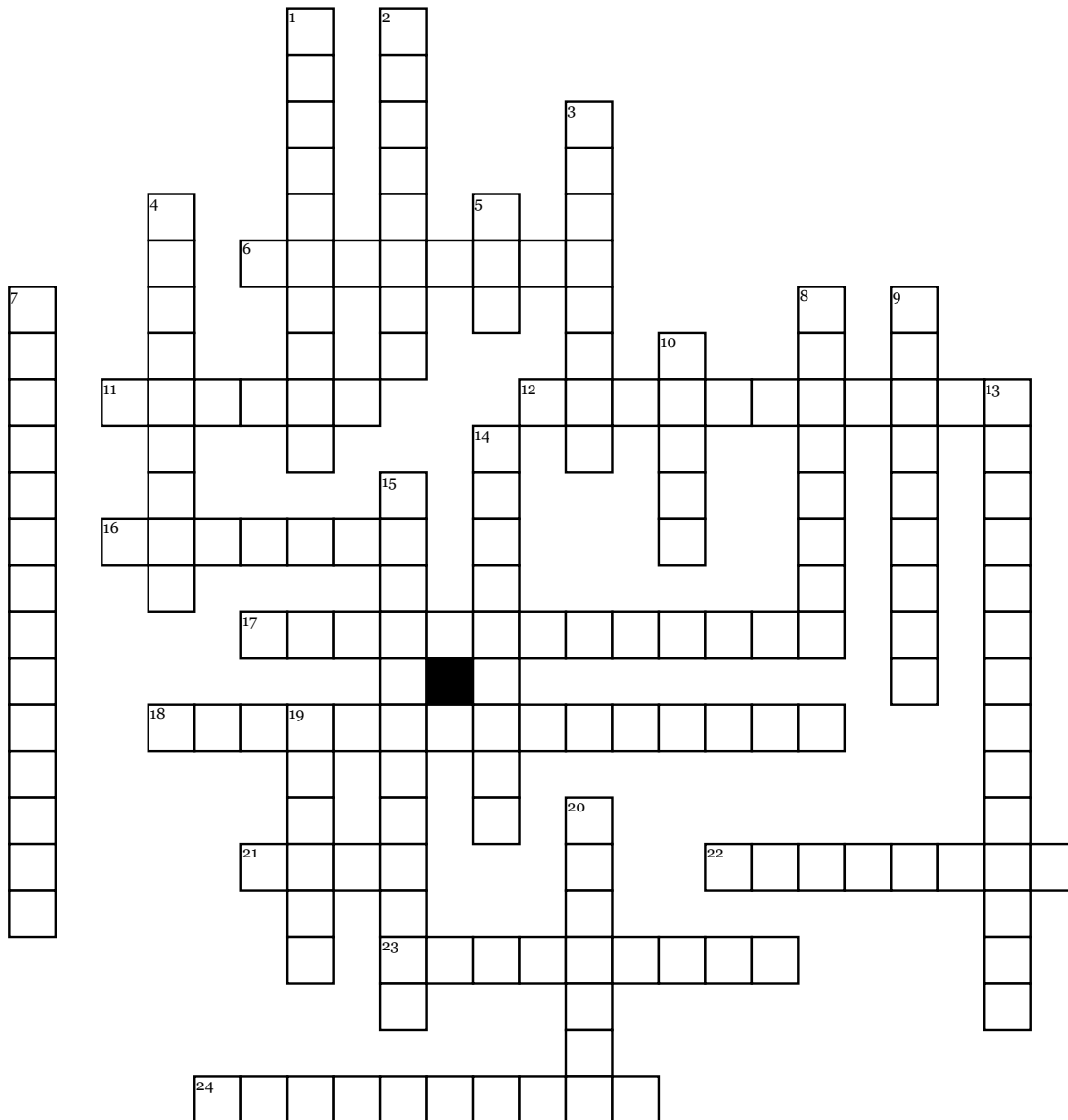


# Chemical Reactions



**Across**

- 6. Substance on the left side of a chemical equation that undergoes a change
- 11. This state of matter has a definite size but no definite shape.
- 12. This type of reaction absorbs heat energy.
- 16. Substance that is formed on the right side of a chemical equation
- 17. The forces that hold the atoms together to form molecules
- 18. Tells the number of atoms of each element in a molecule
- 21. The smallest particle of an element
- 22. Metal rusting is an example of a \_\_\_\_\_ change.
- 23. Have a negative electric charge and orbit the nucleus

- 24. The number of protons plus neutrons in an atom

**Down**

- 1. This type of reaction releases heat energy.
- 2. Ice melting is an example of a \_\_\_\_\_ change.
- 3. Have a neutral electric charge and are located in the nucleus
- 4. The study of the properties of matter and how matter changes
- 5. This state of matter has no definite size or shape.
- 7. This type of change alters the form of a substance but does not change it to another substance
- 8. Substances that cannot be broken down into any other substance

- 9. Substances made of two or more different elements chemically combined
- 10. This state of matter has a definite size and shape.
- 13. This type of change changes a substance into a different substance with different chemical properties.
- 14. Form when two or more atoms join together chemically
- 15. Tells the number of protons in an atom
- 19. Anything that has mass and takes up space
- 20. Have a positive charge and are located in the nucleus