

Name: \_\_\_\_\_

# State of Matter Crossword Puzzle

Use your knowledge of states of matter and state transitions to complete this crossword

The crossword puzzle grid is filled with the following words:

- 1. solid
- 2. vapor
- 3. boiling
- 4. pressure
- 5. plasma
- 6. matter
- 7. matter
- 8. pressure
- 9. energy
- 10. liquid
- 11. liquid
- 12. condensation
- 13. plasma
- 14. evaporation
- 15. freezing
- 16. melting
- 17. gas

## Across

1. The state of matter with definite mass, volume, and shape. (**solid**)
3. Phase transition from a liquid to a gas. (**boiling**)
7. It occupies space and has mass. (**matter**)
8. Most substances can exist in three states of matter (solid, liquid, gas) depending on temperature and \_\_\_\_\_. (**pressure**)
10. Particles in this state of matter are more loosely packed, allowing them to flow around each other. (**liquid**)
12. The conversion of a vapor or gas to a liquid state. (**condensation**)
14. The process by which a liquid turns into a gas, typically at temperatures below its boiling point. (**evaporation**)
15. Phase transition from a liquid to a solid state. (**freezing**)
16. Process in which a solid substance changes into a liquid state. (**melting**)

## Down

1. During the change of state, particles of a solid don't pass through the liquid state as they form a gas. (**sublimation**)
2. Solid, liquid, and gas increase their \_\_\_\_\_ when heated. (**volumes**)
4. Snow, rain, hail, and sleet are examples of \_\_\_\_\_. (**precipitation**)
5. In a gas \_\_\_\_\_ are arranged randomly and move freely with high kinetic energy. (**particles**)
6. The measure of the quantity of matter in an object. (**mass**)
9. Adding or removing \_\_\_\_\_ from matter causes it to transition from one state to another. (**energy**)
11. Matter in plasma state are considered to be \_\_\_\_\_ because electrons have been stripped away from the atoms. (**ionized**)
13. The most common and abundant state of matter in the visible universe. (**plasma**)
17. It has indefinite shape and volume but definite mass. (**gas**)