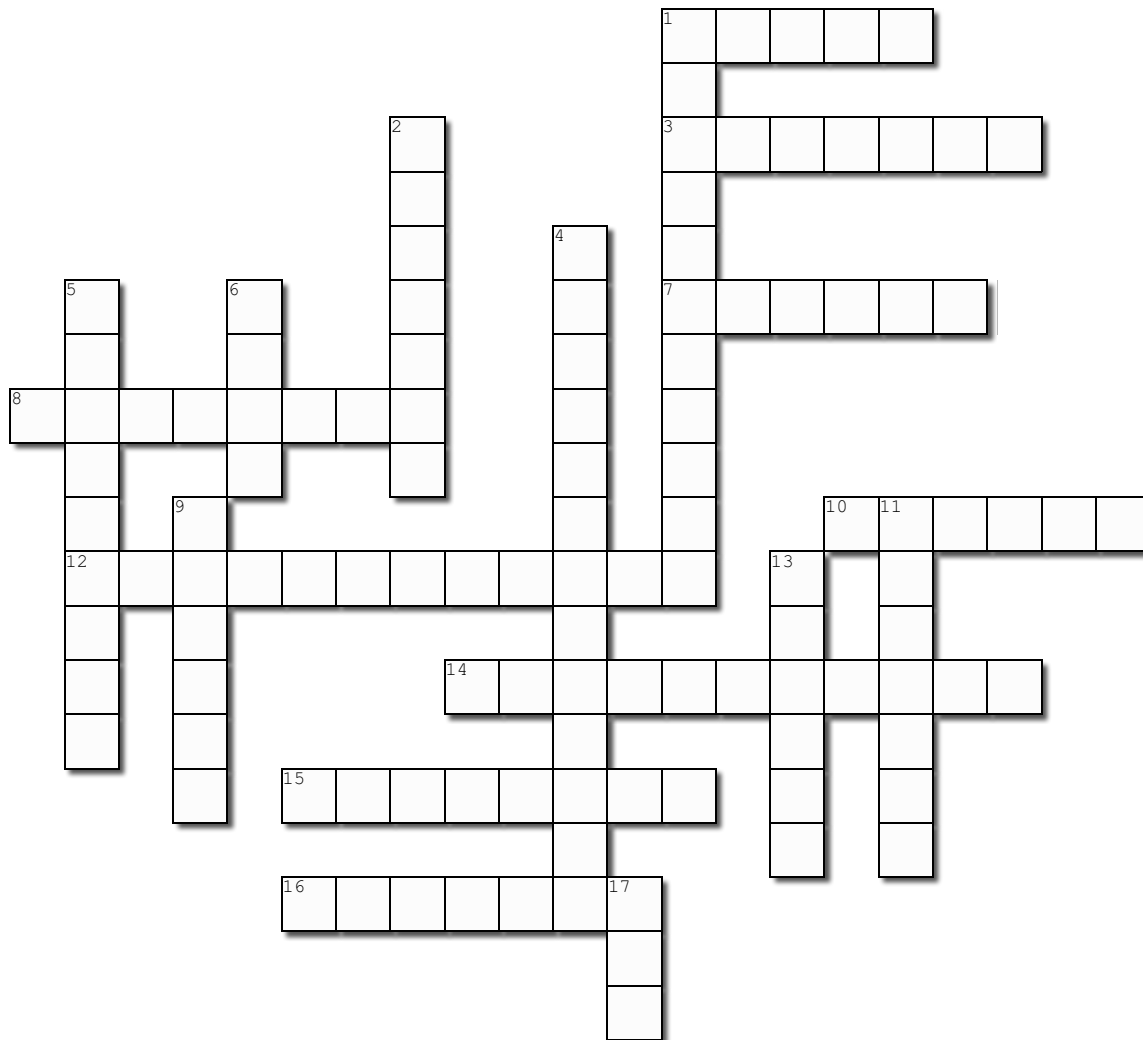


## State of Matter Crossword Puzzle

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



### Across

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

### Down

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