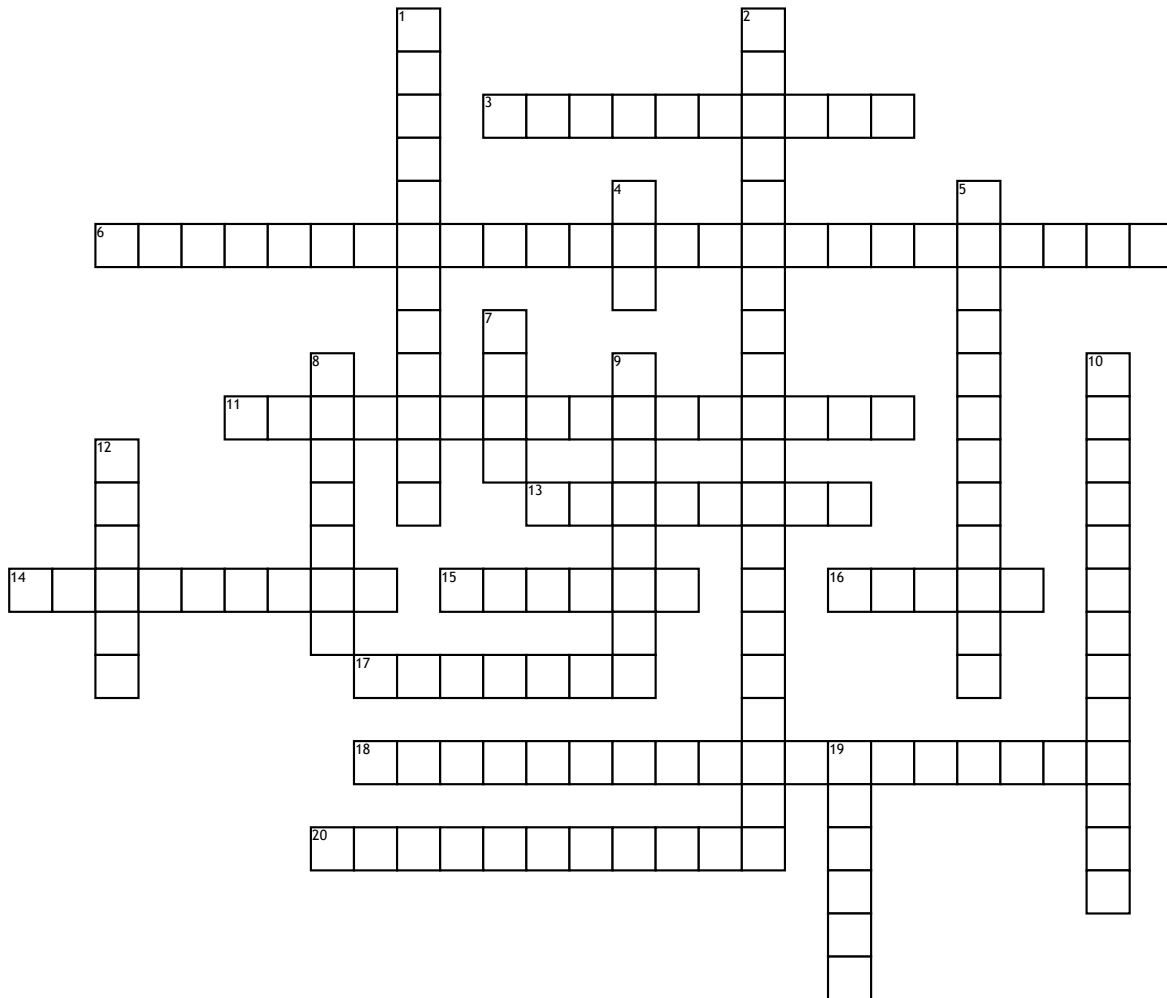


# Classification of Matter



## Across

3. The transfer of thermal energy by the motion of fluids.

6. Matter cannot be created or destroyed however matter can change forms, says this law.

11. The property of a substance that is observed during a chemical change.

13. force exerted on a surface divided by the total area over which the force is exerted

14. a liquid's resistance to flow

15. matter with definite volume but no definite shape that can flow from one place to another

16. matter with a definite shape and volume; has tightly packed particles that move mainly by vibrating

17. change of matter from a solid state to a liquid state.

18. A type of mixture in which the substances are evenly mixed.

20. measure of the average kinetic energy of the individual particles of a substance

## Down

1. change of matter from a gas to a liquid state

2. A type of mixture in which the substances are not evenly mixed

4. matter that does not have a definite shape or volume; has particles that move at high speeds in all directions

5. the process by which matter changes from a liquid state to a gas.

7. the movement of thermal energy from a substance at a higher temperature to a substance at a lower temperature

8. mass of an object divided by its volume

9. change of matter from a liquid state to a solid state

10. energy that all objects have that increases as the object's temperature increases

12. A mixture of hot ions and electrons

19. anything that takes up space and has mass.