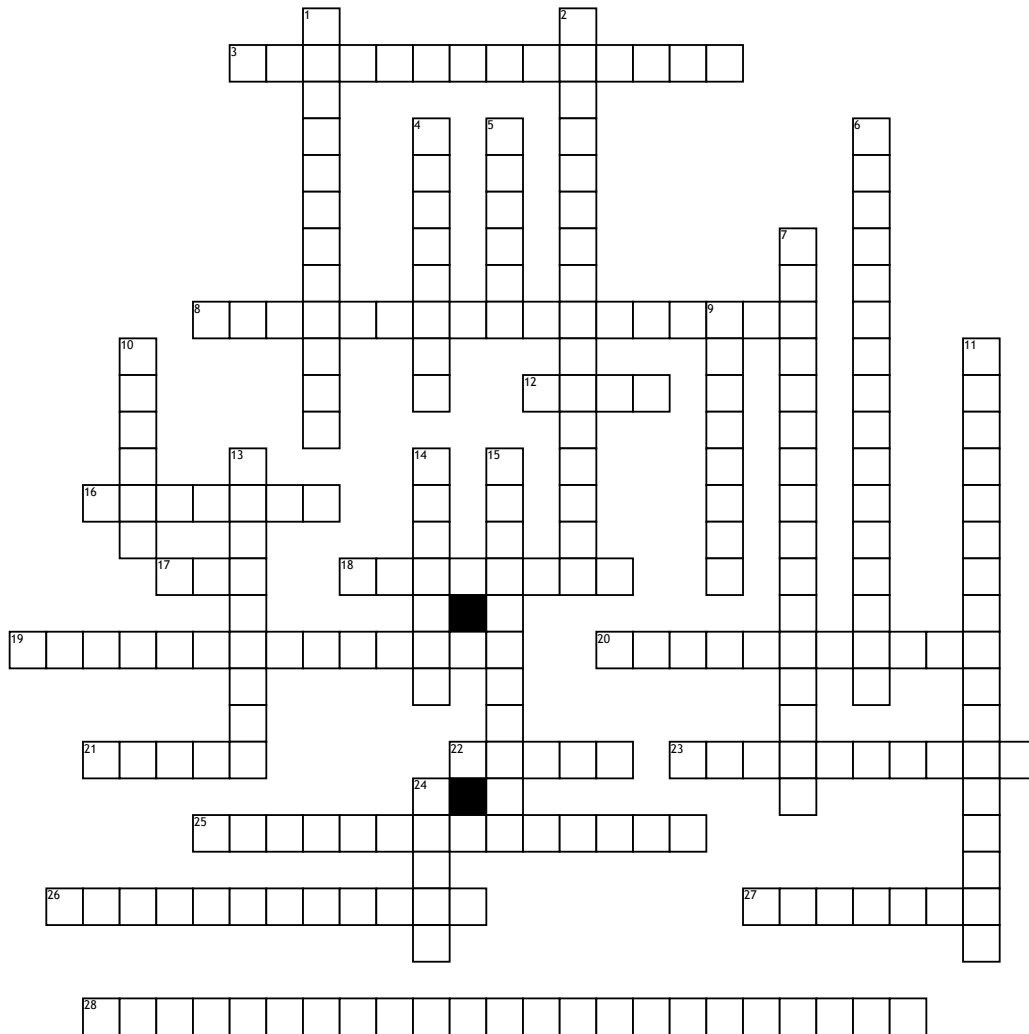


# Matter



**Across**

- 3. A usually irreversible reaction involving the rearrangement of the atoms of one or more substances.
- 8. A property that depends on the type of matter in a sample, not the amount of matter.
- 12. A measure of the amount of matter that an object contains. The SI base unit of mass is the Kilogram.
- 16. A physical blend of two or more substances that are not chemically combined.
- 17. A form of matter that takes the shape and volume of its container. (Has no definite shape)
- 18. A substance that contains two or more elements chemically combined in a fixed proportion.
- 19. A change during in which some properties of a material change, but the composition of the material does not change.
- 20. A solid that forms and settles out of a liquid mixture.
- 21. Any part of a sample with uniform composition and properties.
- 22. A form of matter that has a definite shape and volume.

- 23. A process that separates a solid from a liquid in a heterogeneous mixture.
  - 25. A one or two letter representation of an element.
  - 26. A process used to separate dissolved solids from a liquid.
  - 27. A substance produced in a chemical reaction.
  - 28. In any physical change or chemical reaction, mass is conserved, mass can be neither created or destroyed.
- Down**
- 1. A mixture that is not uniform in composition. Components are not evenly distributed throughout a mixture.
  - 2. A process that also involves rearrangements of the molecular or ionic structure
  - 4. A homogeneous mixture consists of solutes dissolved in solution.
  - 5. The amount of space that a substance or object occupies, or that is enclosed within a container especially when great.
  - 6. Any of a material's properties that become evident coloring or after a chemical reaction.

- 7. A quality or condition of a substance that can be observed or measured without changing the substance's composition.
- 9. A substance present at the start of a reaction.
- 10. A form of matter that flows, has a fixed volume and an indefinite shape.
- 11. A property that depends on the amount of matter in a sample.
- 13. The real physical matter of which a person or thing consists and which has a tangible, solid presence.
- 14. The simplest form of matter that has a unique set of properties.
- 15. A mixture that is not uniform in composition. Components are evenly distributed through the mixture.
- 24. A gaseous substance that is below its critical temperature and can therefore be liquefied by pressure alone.

**Word Bank**

Compound	Element	Vapor	Chemical Reaction
Physical Property	Reactant	Physical Change	Phase
Homogeneous	Mixture	Extensive Property	Volume
Solution	Solid	Distillation	Precipitate
Chemical Property	Liquid	Chemical Change	Substance
Filtration	Chemical Symbol	Mass	Product
Intensive Property	Law Of Conservation of mass	Gas	Heterogeneous