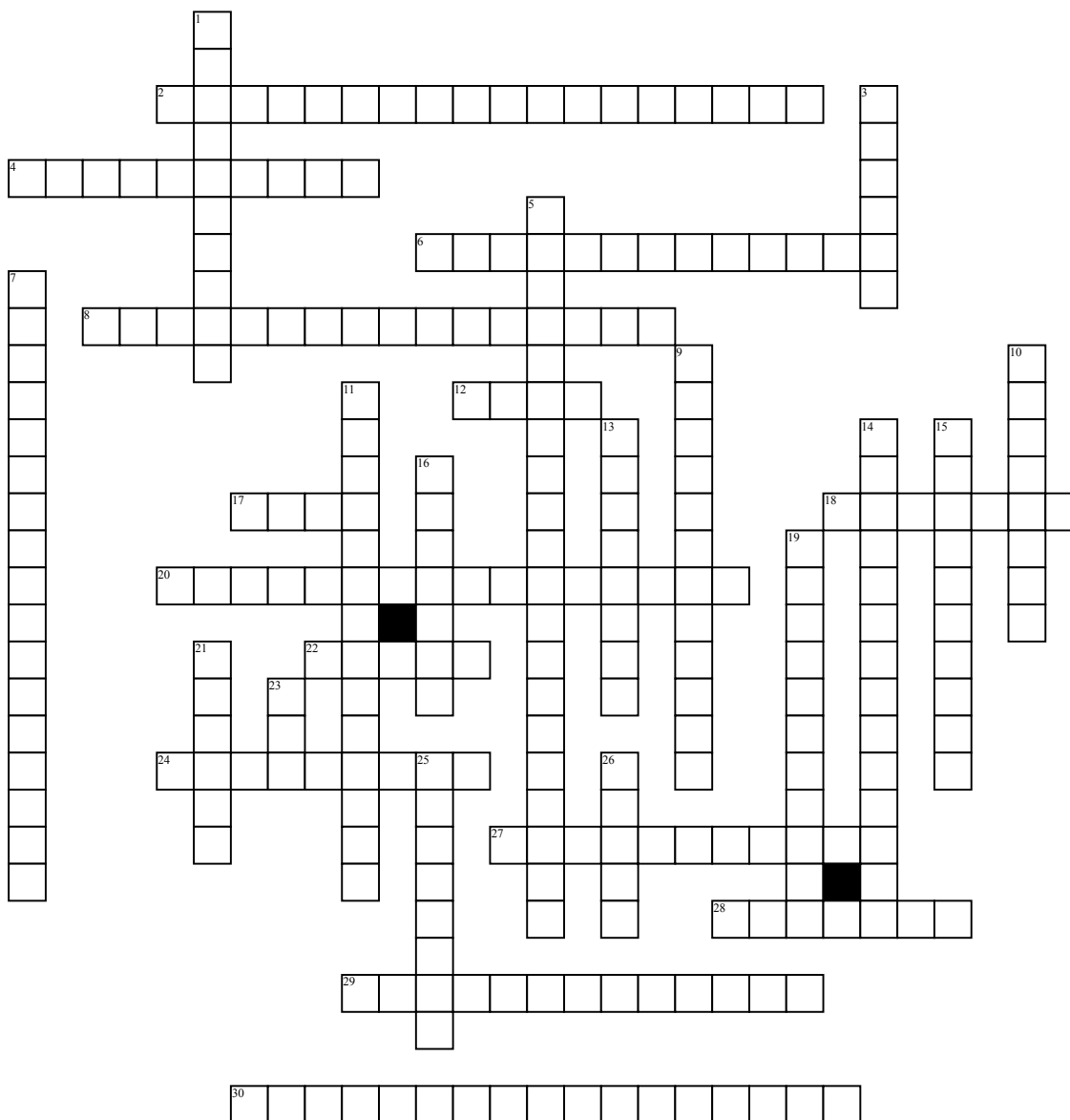


Chemistry Vocabulary



Across

2. a mixture with a uniform composition
 4. the process by which a sample of matter changes directly from the gaseous state to the solid state
 6. any single type of substance
 8. properties that describe matter including color, feel, smell, boiling point, freezing point, and density
 12. the smallest unit of an element that has all of the properties of that element containing a nucleus within an electron cloud
 17. the amount of matter in an object
 18. the quantity of mass per unit volume
 20. properties that include all of the possible chemical changes that a sample of matter can go through
 22. a state of matter that has no fixed shape or structure, such as a liquid or gas
 24. elements or compounds that can only be separated or combined to make substances with new properties by means of a chemical reaction
 27. the process by which a sample of matter changes directly from the solid state to the gaseous state without going through the liquid state
 28. one of the primary substances that make up matter and cannot be chemically broken down or converted into other substances; defined by the atomic number

29. the effect that occurs when light is scattered through a colloid, causing the light beam to become visible as it travels through the mixture

30. properties of a substance that do not depend on the amount of the substance present

Down

1. the mass of a single atom, molecule, or subatomic particle; nearly equal (exactly equal for carbon) to the sum of the numbers of protons and neutrons
 3. anything that has volume and mass
 5. a mixture with a non-uniform composition in which the individual components are distinct and visible
 7. properties of a substance that are dependent on the amount of the substance present
 9. related to the description of something in numerical terms
 10. a homogeneous aqueous mixture
 11. a change that does not change the chemical identity of a substance, such as changes of phase, temperature, shape, or concentration
 13. the physical and chemical characteristics of a substance or element
 14. a change that occurs when a new substance is created with different properties; observable as color change, the production of gas or a precipitate, or the release of heat or light

15. a heterogeneous mixture containing particles large enough to settle

16. a homogeneous mixture in which the particles are indefinitely suspended in the medium, which may be a gas, solid, or liquid

19. related to the description of something in non-numerical terms

21. a state of matter where the shape is variable and dependent on the shape of the container, the volume is constant, and the particles move independently within the substance

23. a state of matter where the shape and volume are variable and dependent on the shape of the closed container and where the particles are completely independent of each other

25. a substance composed of multiple elements combined in fixed proportions

26. a state of matter where the shape is constant and rigid, where the volume is constant, and where the particles vibrate in a fixed position