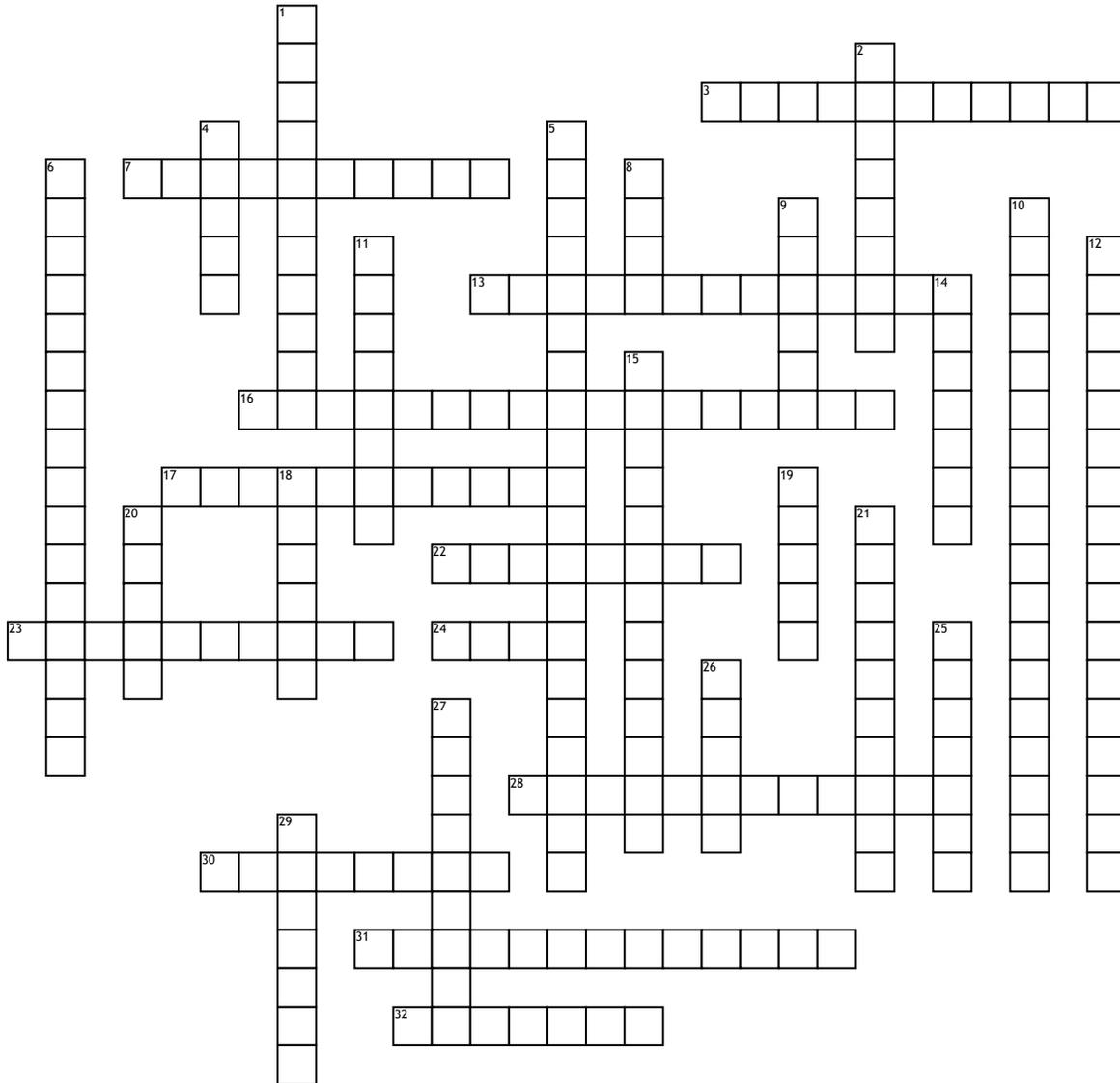


Matter



Across

3. The process which a matter on the surface of a liquid changes from a liquid to a vapor

7. The mass of a single atom, molecules, or subatomic particles

13. Any single type of substance

16. Properties of a substance that are dependent on the amount of substance present

17. Related to something in non-terms

22. A homogeneous aqueous mixture

23. The process by which a sample of matter changes directly from the gaseous state to the solid state

24. The smallest unit of an element that has all of the properties of that element containing a nucleus within an electron cloud

28. Related to the description of something in numerical terms

30. The physical and chemical characteristics of a substance

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

32. The quantity of mass per unit volume

Down

1. The process by which a sample of matter changes directly from a solid state to gaseous state without going through the liquid state

2. A substance composed of multiple elements combined in fixed proportions

4. 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

5. A mixture with a non-uniform composition in which the individual components are distinct and visible

6. Properties that include all of the possible chemical changes that a simple matter can go through

8. The amount of matter in an object

9. Anything that has volume and mass

10. A mixture with a uniform composition

11. The physical and chemical characteristic of a substance or element

12. Properties of a substance that are dependent on the amount of a substance present

14. 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

15. The temperature at when a liquid turns into a solid when cold

18. A state of matter where the shape is variable and depends on the shape of the container, the volume is constant, and the particle more independently within the substance

19. A state of matter that has no fixed shape or structure, such as liquid or a gas

20. The gaseous state of a simple of matter that would otherwise be a liquid or gas at room temperature

21. A heterogeneous mixture containing particles large enough to settle

25. 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

26. A state of matter that has no fixed shape or structure, such as a liquid or a gas

27. Elements or compound that can only be separated or combined to make substances with new properties by means of a chemicals reactions

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