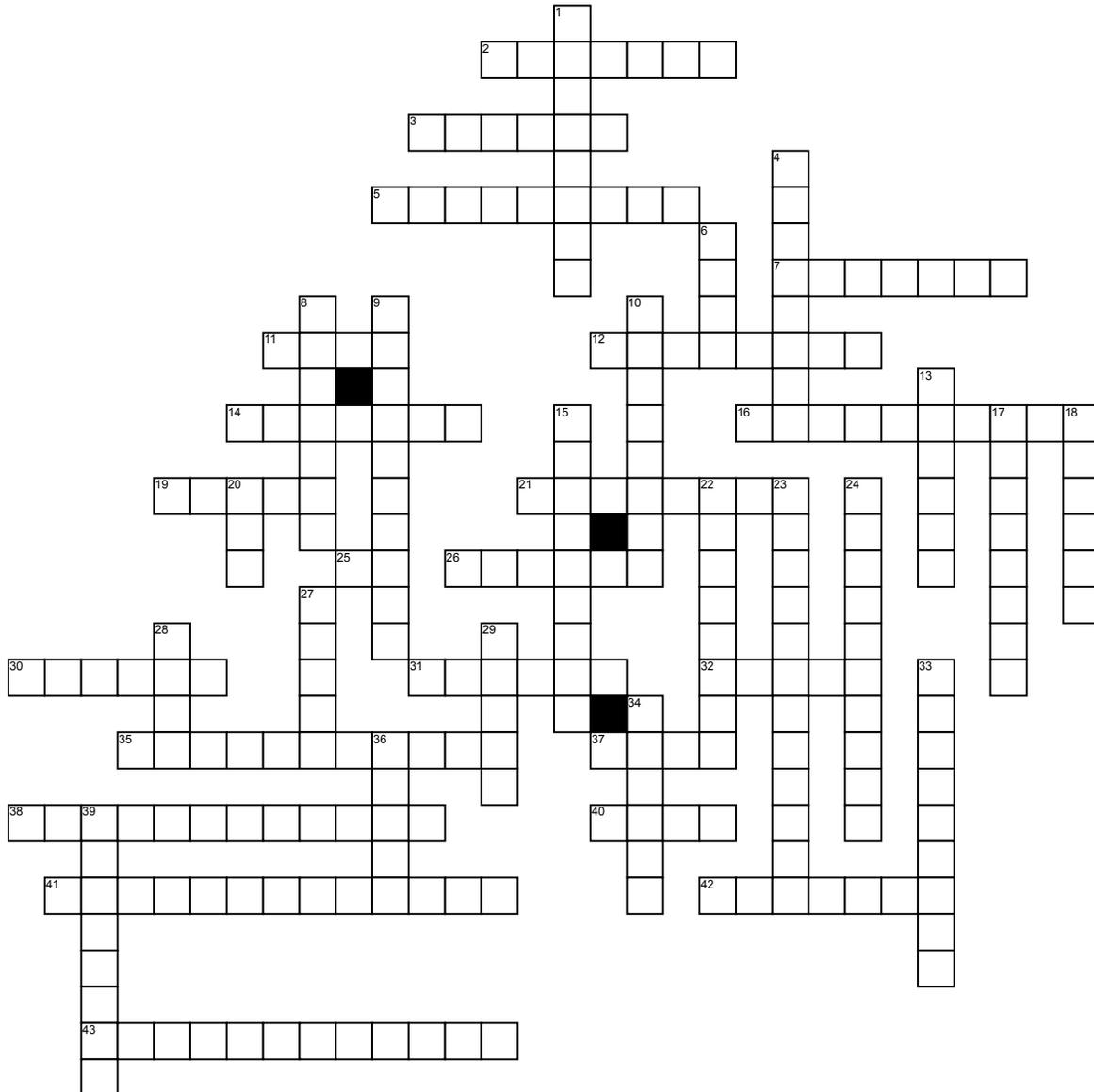


Chemistry Crossword



Across

2. the minimum quantity of energy that can be lost or gained by an atom
 3. the SI unit of force
 5. defined as the number of waves that pass a given point in a specific time, usually one second
 7. a general term for any isotope of any element
 11. 1
 12. the physical change from a liquid to a solid by the removal of heat
 14. the physical change of a solid to a liquid by the addition of heat
 16. testable statement
 19. a negative ion
 21. a process by which gas particles pass through a tiny opening
 25. 2
 26. the amount of space occupied by an object
 30. a positive ion
 31. a particle of electromagnetic radiation having zero mass and carrying a quantum of energy
 32. any part of a system that has uniform composition and properties
 35. the lowest energy state of an atom
 37. a measure of the amount of matter

38. a state in which an atom has a higher potential energy than has in its ground state
 40. the smallest unit of an element that maintains the properties of that element
 41. an arrangement of the elements in order of their atomic numbers so that elements with similar properties fall in the same column, group
 42. a pure substance made of only one kind of atom
 43. an element is the number of protons in the nucleus of each atom of that element
- ## Down
1. the elements of Group 17
 4. something that has magnitude, size, and amount
 6. the amount of a substance that contains as many particles as there are atoms in exactly 12 g of carbon-12
 8. the conversion of liquid to vapor
 9. the formation of ions from solute molecules by the action of the solvent
 10. the force per unit area on a surface
 13. a broad generalization that explains a body of facts or phenomena
 15. spontaneous mixing of the particles of two substances caused by their random motion
 17. a measurement consist of all the digits known with certainty plus one final digit
 18. the substance dissolved in a solution

20. an atom or group of bonded atoms that has a positive or negative charge
 22. atoms of the same element that have different masses
 23. a short range force that holds the nuclear particles together
 24. the distance between corresponding points on adjacent waves
 27. a substance that can flow and therefore take shape of its container
 28. a unit of pressure based on an absolute scale
 29. science is more than a physical object: it is often an explanation of how phenomena occur and how data or events are related
 33. The study of the composition, structure, and properties of matter and the changes it undergoes
 34. anything that has mass and takes up space
 36. 4
 39. any substance that has a definite composition