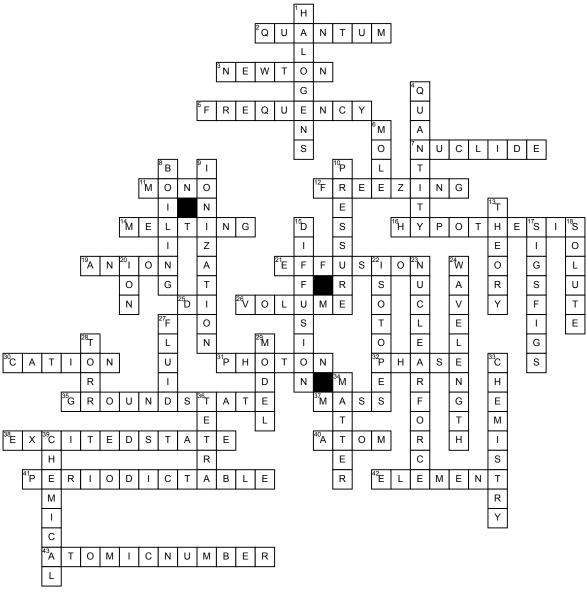
Name:	Date:

Chemistry Crossword



Across

- 2. the minimum quantity of energy that can be lost or gained by an atom
- 3. the SI unit or 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
- ${\bf 14.}$ 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 pf 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
- 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 masses23. a short range force that holds the nuclear particles together
- 24. the distance between corresponding points on adjacent waves
- 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