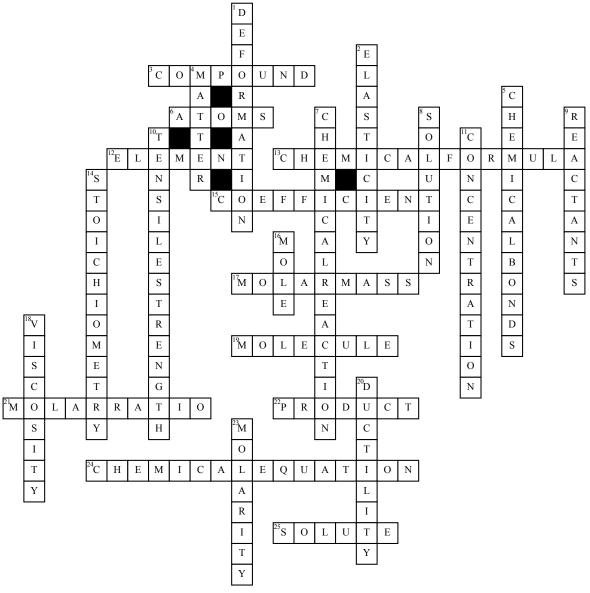
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Section 1.1 Vocabulary



Across

- **3.** formed when two or more different types of elements combine in a specific ratio
- **6.** a combination of subatomic particles: protons (+), neutrons (neutral), and electrons (-)
- 12. a substance composed of atoms all with the same atomic number; cannot be split chemically into smaller substances
- **13.** a formula expressed by numeric subscripts and an element's symbol
- **15.** positively charged whole numbers that give information about how many moles of a substance are involved in a reaction
- 17. (M) is a physical property defined as the mass of a given substance (chemical element or chemical compound) divided by the amount of substance. The base SI unit for molar mass is kg/mol
- 19. forms when two or more atoms of any type of element share a bond

- **21.** is the relationship between the coefficients of reactants and products
- **22.** a new substance formed when reactants are chemically changed
- **24.** a formula expressed by numeric subscripts and an element's symbol
- **25.** the substance dissolved in a liquid

Down

- 1. changing the shape of an object
- **2.** the ability of a body to regain its original shape after deformation
- **4.** anything that takes up space and has mass; can exist in the form of solids, liquids, or gases
- **5.** bonds that occur through either sharing of electrons or donation between atoms
- 7. a process that involves rearrangement of the molecular or ionic structure of a substance, as opposed to a change in physical form or a nuclear reaction

- **8.** a homogeneous mixture that results from a solute dissolving in a solvent
- **9.** the substances that take part in a chemical reaction
- 10. the amount of stress a material can withstand before undergoing a significant change to its cross sectional area; not measured but obtained using experimental measures
- 11. the abundance of a constituent divided by the total volume of a mixture
- **14.** the use of mathematics to quantify what occurs in a chemical reaction
- **16.** a counting unit (mol) to quantify the number of atoms, particles, or molecules in a given mass
- **18.** a property of fluids that measures the resistance offered by the fluid to shear stress
- **20.** the ability of a material to undergo plastic deformation before fracture; mathematically, defined as a percentage
- **23.** number of moles of solute per liters of solvent