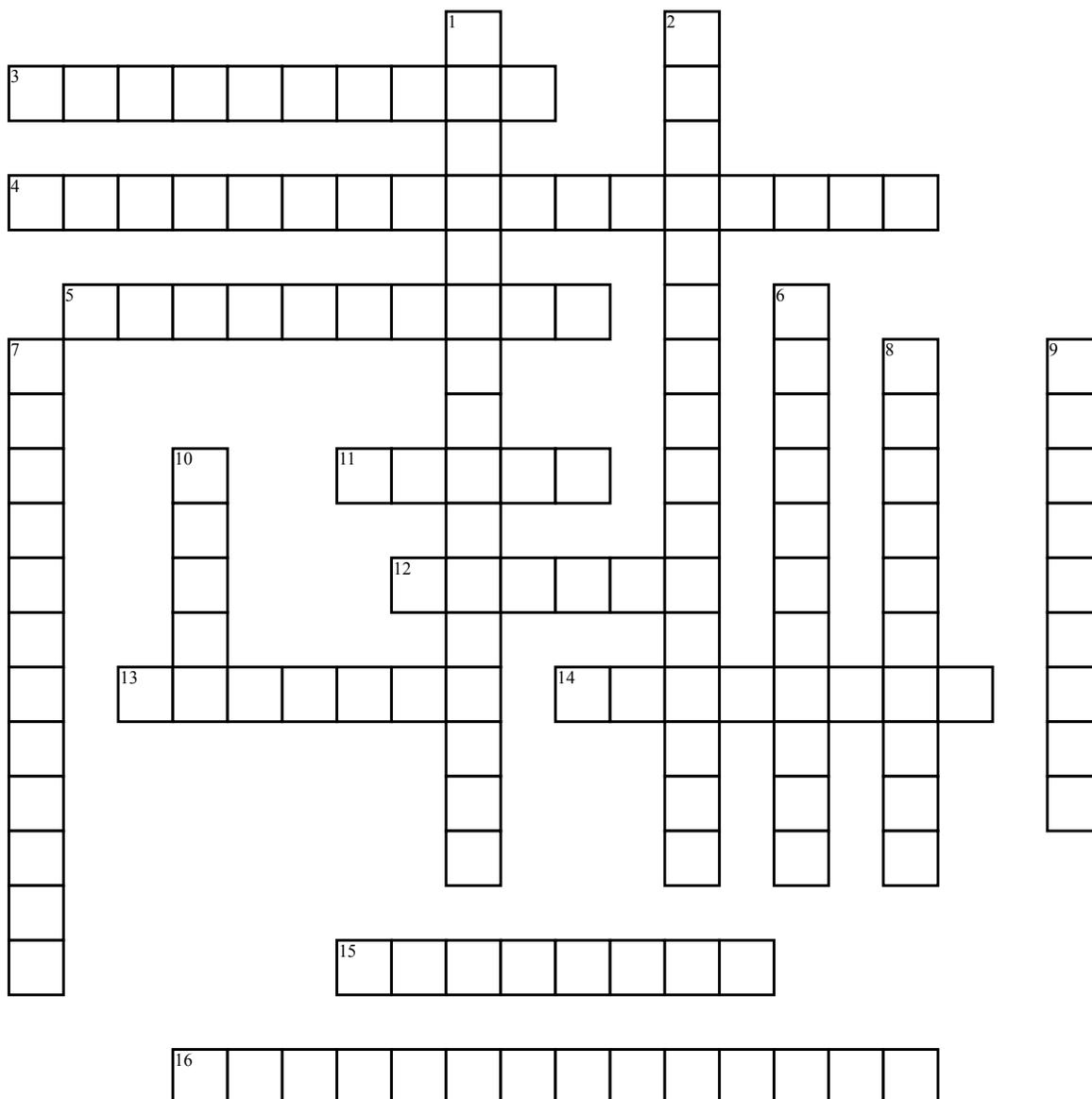


# Chemistry Crossword



**Across**

- 3. Scientist who theorized elements, compounds, and that atoms are never created or destroyed
- 4. The digits in a measured number that include all certain digits and the first uncertain digit.
- 5.  $\text{Cr}_2\text{O}_7^{2-}$
- 11. the electrode in a galvanic cell at which oxidation occurs
- 12. the SI base unit of temperature
- 13. a compound, typically a crystalline one, in which water molecules are chemically bound to another compound or an element

- 14. a substance composed of atoms of two or more elements chemically united in fixed proportions
- 15. passage of a gas through a tiny orifice into an evacuated chamber
- 16. In the VSEPR model, a region about a central atom in which an electron pair is concentrated.

**Down**

- 1. is the energy that is required to remove an electron.
- 2. the number of atoms in exactly 12 grams of pure  $^{12}\text{C}$ , equal to  $6.022 \times 10^{23}$

- 6. A model that accounts for the geometric arrangements of shared and unshared electron pairs around a central atom in terms of the repulsions between electron pairs
- 7. The Periodic Table is arranged by increasing \_\_\_\_\_ since this is what makes an elements unique from another element.
- 8. the distance between the nuclei of the two atoms connected by a bond; the distance where the total energy of a diatomic molecule is minimal
- 9. 90% of the compounds we know of are \_\_\_\_\_
- 10. A substance that contains a mixture of elements and has metallic properties