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Chem Crossword 3

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| **Across**  **3.** A substance formed from two or more elements chemically united in fixed proportions  **7.** Any ion with a negative charge  **9.** the configuration (order of filling) of the s, p, d, and f orbitals; electrons fill the lowest energy levels first  **10.** A characteristic of a pure substance that describes how it interacts with other substances  **12.** Positively charged subatomic particles  **13.** A change that alters a substance without changing its chemical composition or its identity  **14.** Elements other than transition metals tend to react so that each atom has eight electrons in its outer (valence) shell; i.e. orbitals are full  **15.** in a 3D non-symmetrical molecule, the unequal sharing does NOT cancel out, so that there is partial positive area and a partial negative area | **Down**  **1.** A group of elements with similar chemical properties  **2.** between the group 2 and group 3 elements  **4.** Group 2 elements  **5.** A measure of the size of an atom of an element from the nucleus to the outer electrons  **6.** Comprised of the mass of the protons and neutrons of an atom  **8.** The length between successive peaks (or troughs) of a wave  **11.** the kind and number of atoms in a representative unit of a substance |