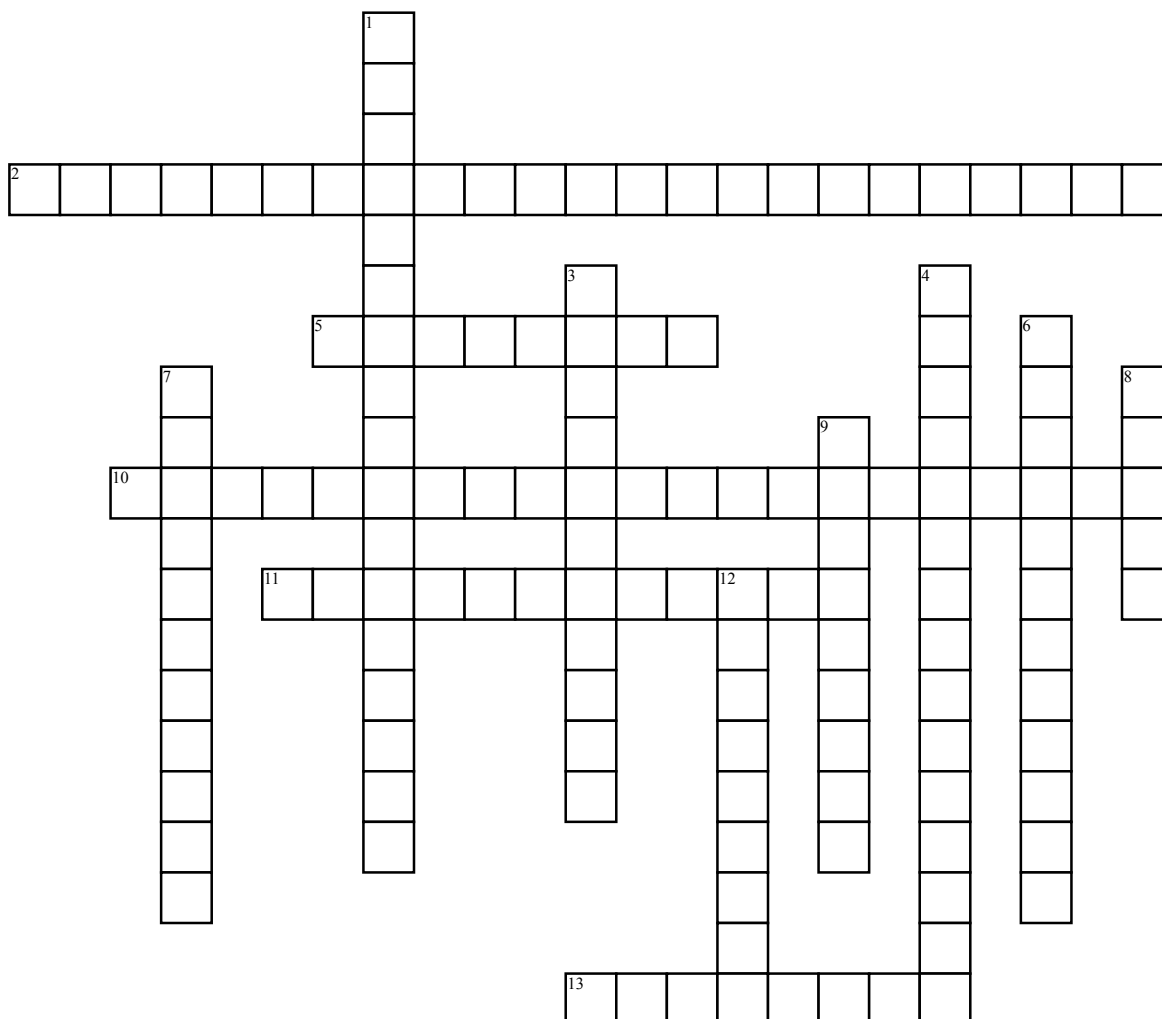


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# Chemistry Crossword



## Across

- 2.** No two electrons in an atom can have identical quantum numbers.
- 5.** a chemical bond that involves the sharing of electron pairs between atoms
- 10.** the term given to the electron configuration of noble gases
- 11.** electrostatic attraction between the positively charged atomic nuclei of metal atoms and the delocalised electrons in the metal
- 13.** a group of atoms bonded together, representing the smallest fundamental unit of a chemical compound that can take part in a chemical reaction

## Down

- 1.** measure of the tendency of an atom to attract a bonding pair of electrons
- 3.** chemical and physical properties of the elements recur periodically when the elements are arranged in the order of their atomic weights
- 4.** electrons orbiting one or more atoms fill the lowest available energy levels before filling higher levels
- 6.** any quantum state of the system that has a higher energy than the ground state
- 7.** The lowest allowed energy state of an atom, molecule, or ion

- 8.** pertaining to something carrying a net electrical charge, as an ionic bond or ionic compound
- 9.** every orbital in a subshell is singly occupied with one electron before any one orbital is doubly occupied, and all electrons in singly occupied orbitals have the same spin
- 12.** atoms of main-group elements tend to combine in such a way that each atom has eight electrons in its valence shell, giving it the same electronic configuration as a noble gas.