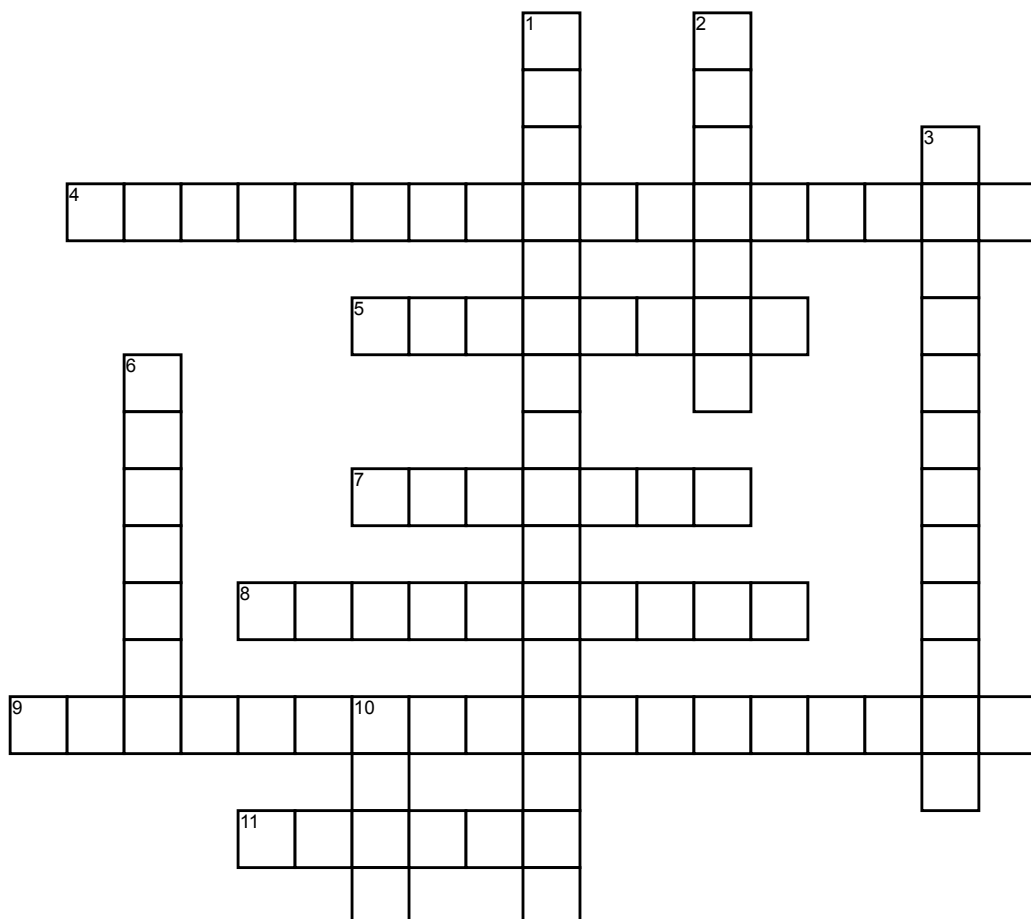


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# Atomic Vocabulary



## Across

4. a measure of the tendency of an atom to attract a bonding pair of electrons
5. Negatively charged subatomic particle with insignificant mass located outside of the nucleus of an atom
7. The positively charged mass within the atom, composed of neutrons and protons, and possessing most of the mass but occupying only a small fraction of the volume of an atom
8. The mass of an atom of a chemical element expressed in atomic mass units; approximately equivalent to the number of protons and neutrons in the atom or to the average number allowing for the relative abundances of different isotopes
9. a property of characteristic of a substance that is observed during a reaction in which the chemical composition or identity of the substance is changed

11. Positively charged subatomic particle with significant mass located within the nucleus of an atom

## Down

1. An outer shell electron that is associated with the formation of chemical bonds
2. Neutral subatomic particle with significant mass located within the nucleus of an atom
3. The number of protons on the nucleus of an atom, which determines the chemical properties of an element and its place in the periodic table
6. Atoms of the same element that contains equal numbers of protons but different numbers of neutrons in their nuclei
10. The smallest unit of a chemical element that has all of the properties of that element; basic building block of matter

## Word Bank

atomic number	proton	neutron	electron
valence electrons	atomic mass	electronegativity	nucleus
chemical properties	isotope	atom	