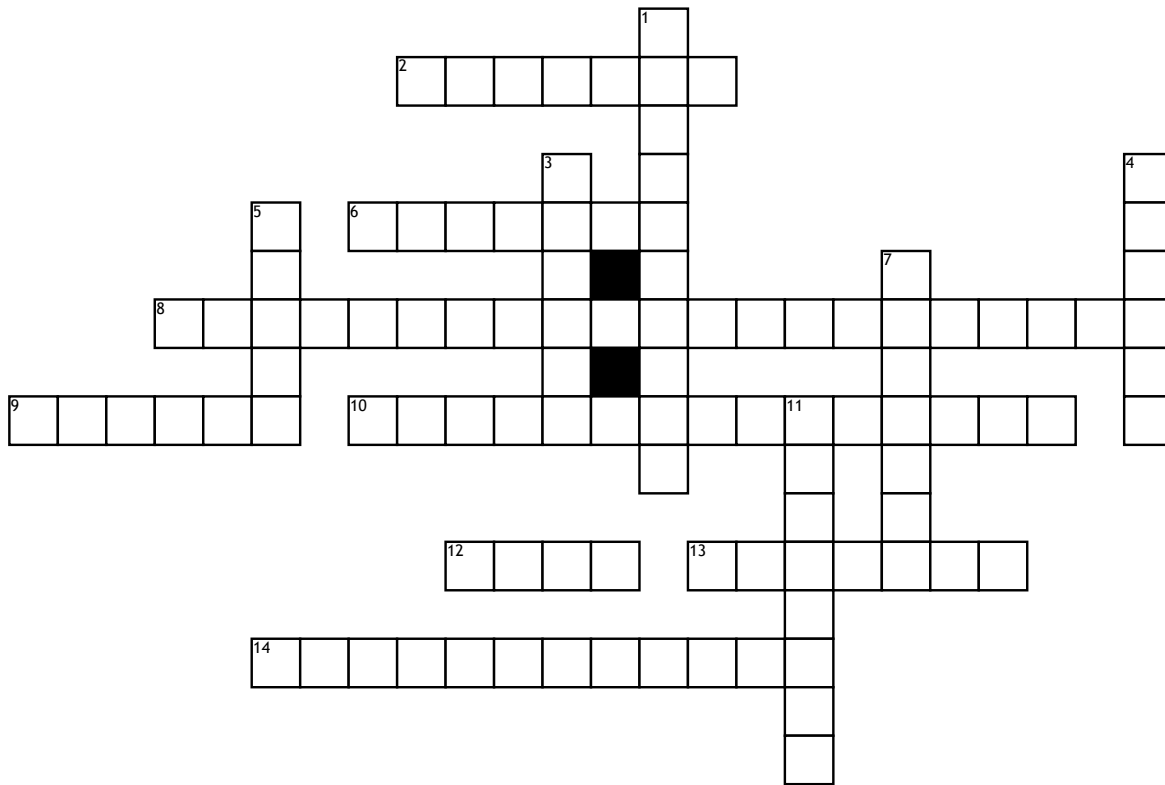


# Physical Science Vocabulary



## Across

- 2.** A mathematical expression called wave function that describes properties of no more than two electrons in the vicinity of the nucleus or nuclei in a molecule.
- 6.** An elementary Particle having no charge and a greater mass than a proton.
- 8.** 1/12 of the mass of Carbon-12 atom in its ground state and used to express masses of atomic particles.
- 9.** Any positively charged atom or group of atoms.
- 10.** An electron of an atom, located in the outermost shell of the atom, that can be transferred to or shared with another atom.

- 12.** A scientific unit for measuring large quantities of very small entities such as atoms, molecules, or other specified particles.
- 13.** The positively charged mass within an atom, consisting of neutrons and protons.
- 14.** The number of positive charges, or protons, in the nucleus of an atom of a given element, and therefore also the number of electrons normally surrounding the nucleus.

## Down

- 1.** The integer nearest in value to the atomic weight of an atom.
- 3.** A positively charged elementary particle that is a fundamental part of all atomic nuclei.

- 4.** A quantum of electromagnetic radiation, usually considered an elementary particle with zero rest mass and charge.
- 5.** Any negatively charged atom or group of atoms.
- 7.** Any of two or more forms of a chemical element, having the same atomic number, but different atomic weights.
- 11.** A negatively charged particle existing independently or as the component outside the nucleus of the atom.