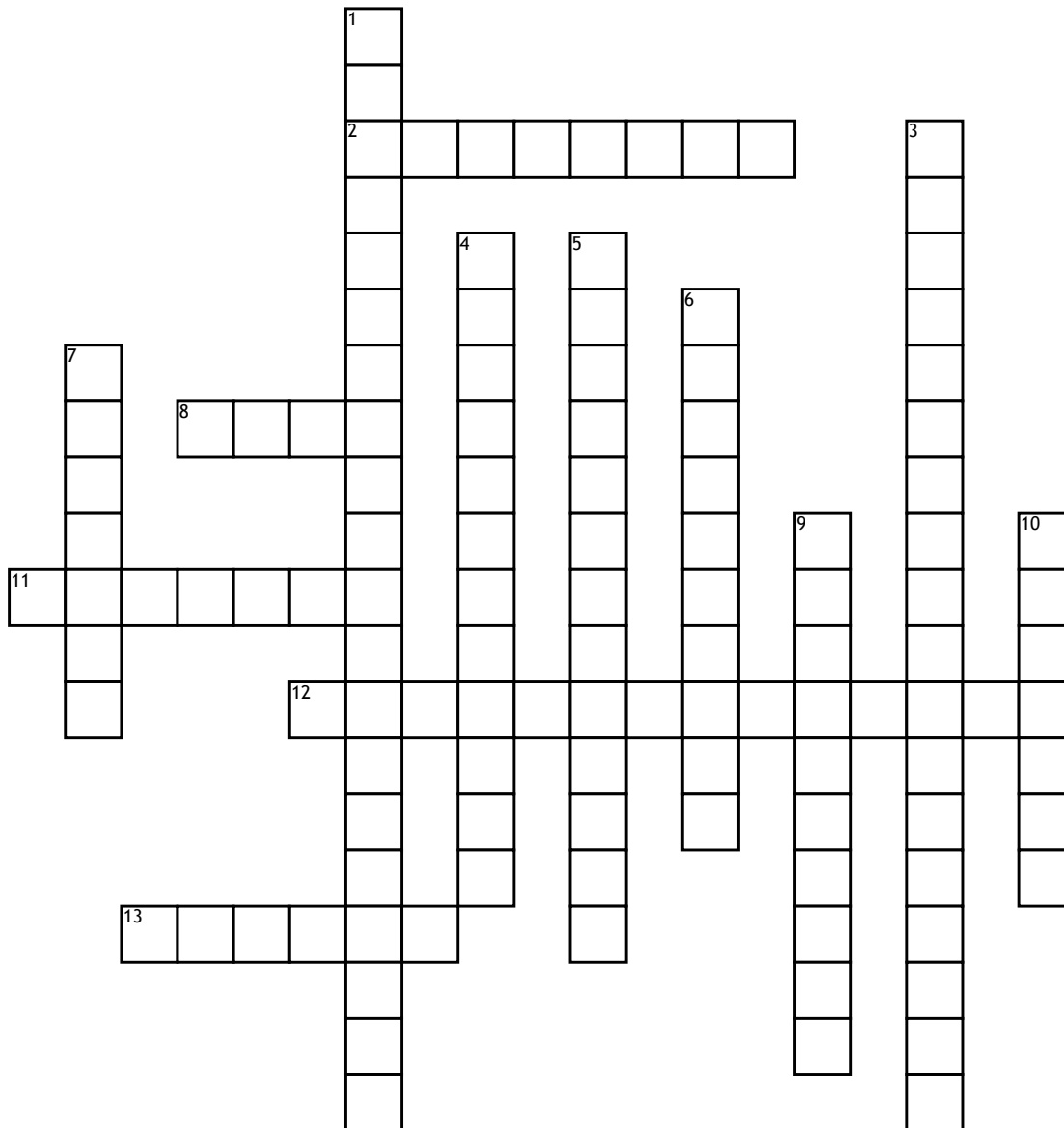


# Science



## Across

- 2.** a subatomic particle that has a negative charge
- 8.** the smallest unit of an element that maintains the properties of that element
- 11.** a subatomic particle that has no charge and that is found in the nucleus of an atom
- 12.** a unit of mass that describes the mass of an atom or molecule
- 13.** a subatomic particle that has a positive charge and that is located in the nucleus of an atom; the number of protons in the nucleus is the atomic number, which determines the identity of an element

## Down

- 1.** force arising from the attractions and repulsions associated with electric and magnetic fields
- 3.** a force that attracts any object with mass
- 4.** the number of protons in the nucleus of an atom; the atomic number is the same for all atoms in an element
- 5.** a region around the nucleus of an atom where electrons are likely to be found
- 6.** the mass of an atom expressed in atomic mass units

- 7.** in physical science, an atom's central region, which is made up of protons and neutrons
- 9.** the sum of the numbers of protons and neutrons in the nucleus of an atom
- 10.** an atom that has the same number of protons (or the same atomic number) as other atoms of the same element do but that has a different number of neutrons (and thus a different atomic mass)