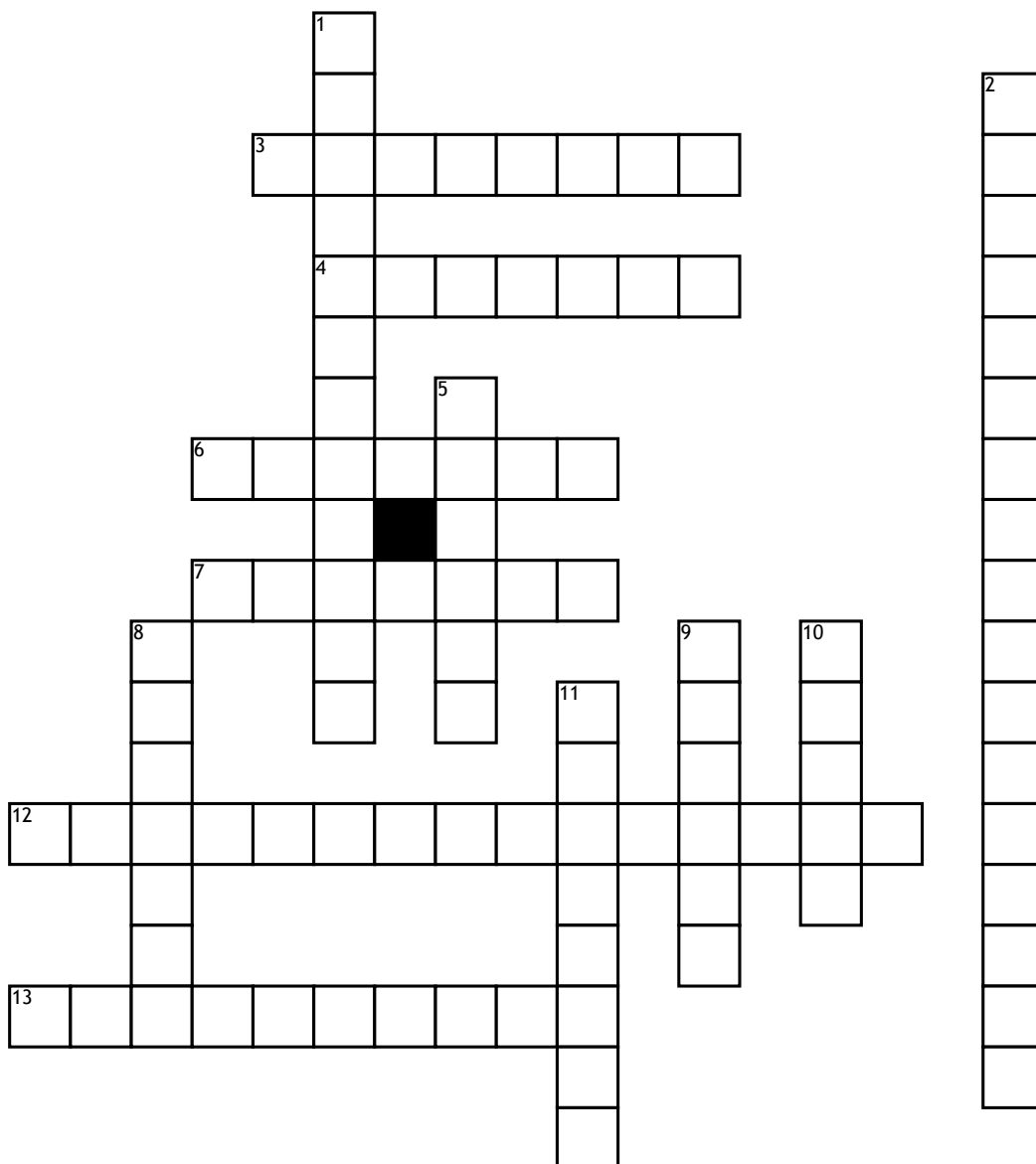


Name: _____

Date: _____

Atoms



Across

- 3.** a group of atoms bonded together.
- 4.** two or more atoms of the same element having different numbers of neutrons.
- 6.** a particle without charge in an atom's nucleus.
- 7.** a region surrounding an atomic nucleus
- 12.** an outer shell electron that is associated with an atom.

- 13.** the total number of protons and neutrons in the nucleus.

Down

- 1.** the number of protons in the nucleus of an atom, which determines the chemical properties of an atom and its place in the periodic table.
- 2.** a unit of mass widely used in physics and chemistry.
- 5.** positively charged particles in the atom's nucleus.

- 8.** center of an atom; contains neutrons and protons.

- 9.** a particle representing a quantum of light or electromagnetic radiation.
- 10.** a negatively charged ion.
- 11.** a negatively charged particle that occupies space around an atom's nucleus.