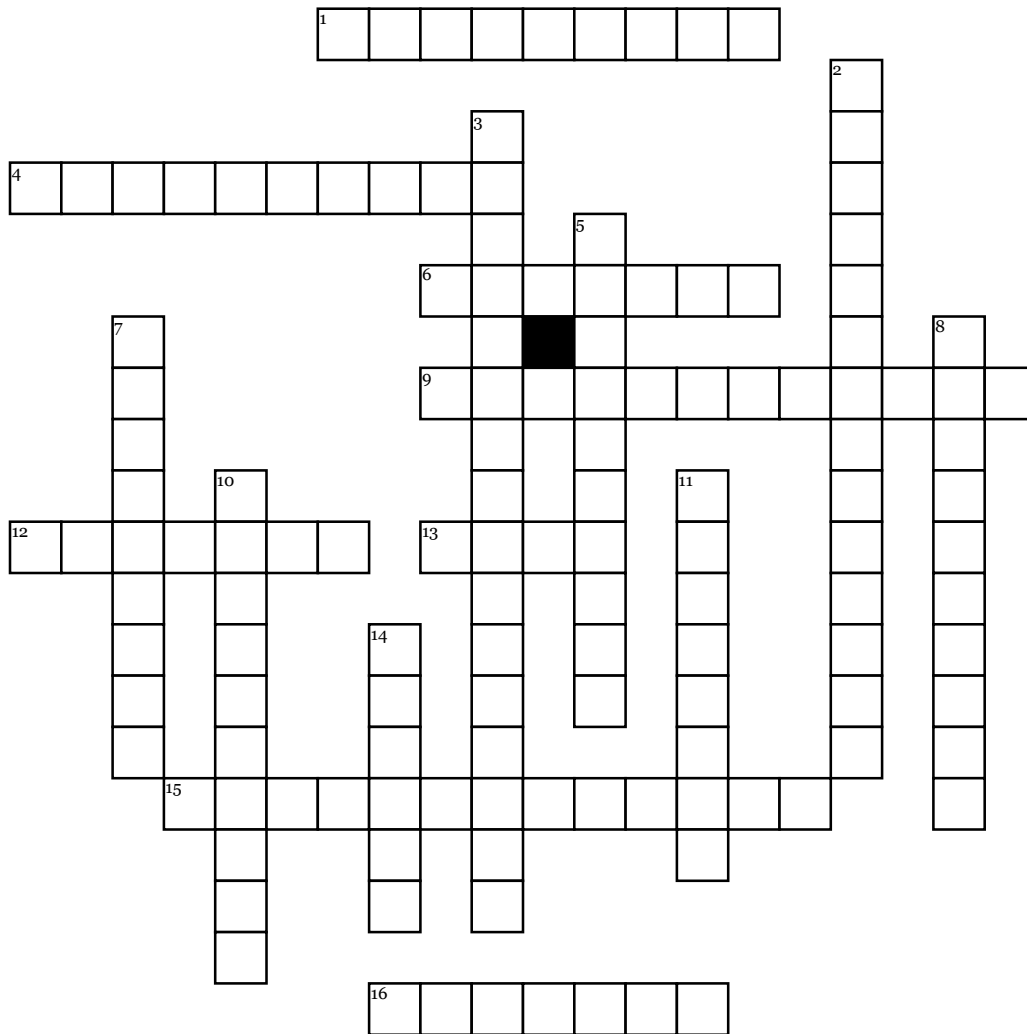


Atoms



Across

- 1.** Call this the “planetary model”
4. The sum of the numbers of protons and neutrons in the nucleus of an atom
6. Particle that has no charge
9. The number of protons in the nucleus of an atom
12. An atom that has the same number of protons or the same atomic number

13. They cannot be divided into smaller parts by ordinary means

15. The system of electrons surrounding the nucleus of an atom

16. Made up of protons and neutrons

Down

2. A unit of mass that describes the mass of an atom or molecule

3. 1912; Using his gold foil experiment

5. The mass of an atom expressed in atomic mass unit
7. 1897; Discovered electrons

8. 460 BC: proposed that all things were made of “atomos”

10. 1803; Teacher at Quaker school

11. Are found in shells or orbitals that surround the nucleus of an atom

14. Particle that has a positive charge

Word Bank

Isotope

Electron

John Dalton

Atomic Mass

Atom

J.J Thomson

Neutron

Atomic Number

Proton

Nucleus

Neils Bohr

Atomic Mass Unit

Democritus

Mass Number

Ernest Rutherford

Electron Cloud