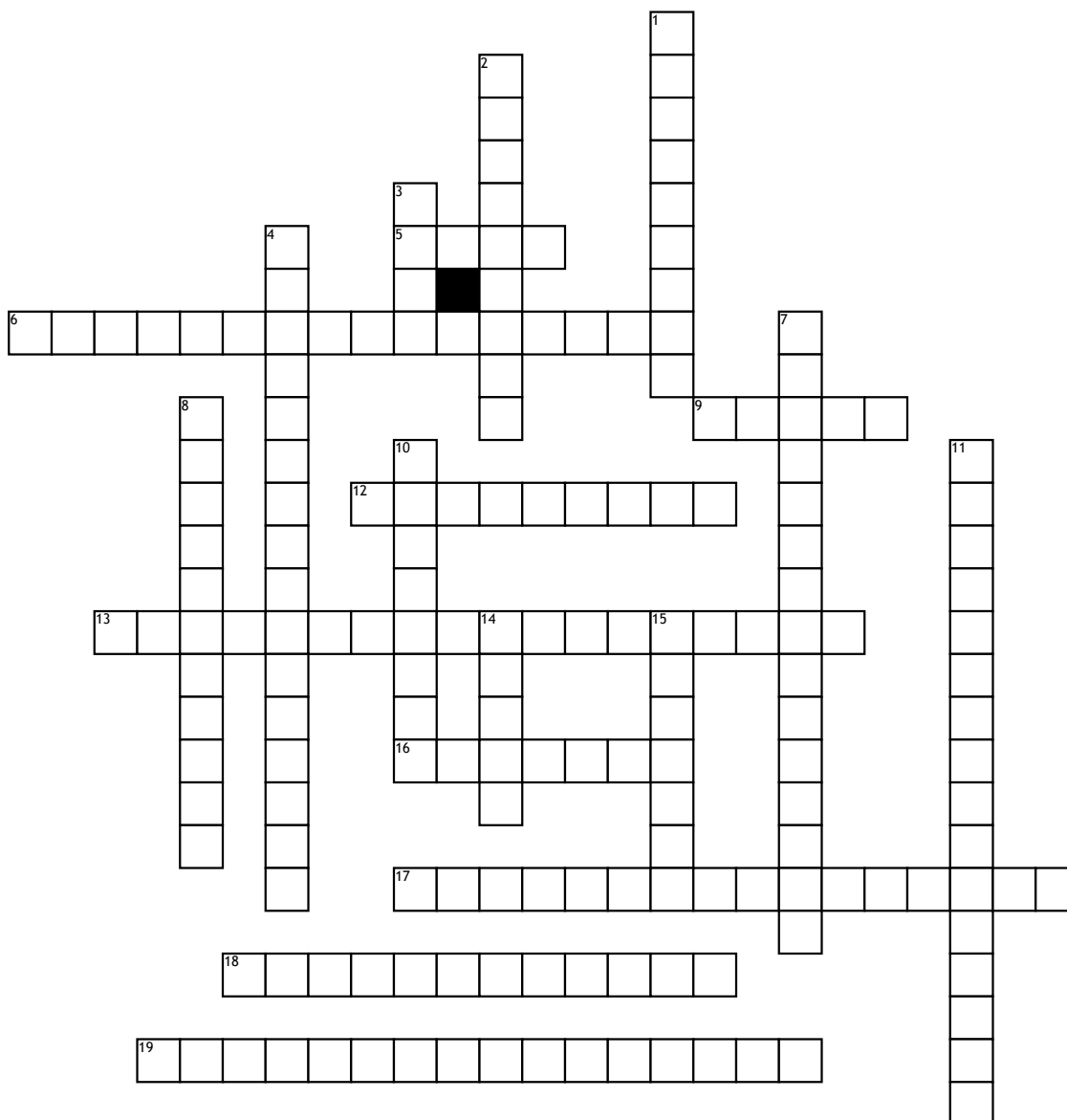


Moles and Chemistry



Across

- 5. Solution with a higher concentration of H⁺ ions (pH 0-7)
- 6. Outer shell electrons are called _____ .
- 9. One mole is equal to 6.02×10^{23} _____ .
- 12. a chemical bond between a metal and a nonmetal.
- 13. the percent by mass of each element in a compound.
- 16. a pure substance that contains entirely of one kind of atom.
- 17. Outer shell electrons are called _____ .
- 18. a chemical bond between two nonmetals.

- 19. A chemical formula of a molecular compound that shows the number of atoms present the compound.

Down

- 1. physical property defined as the mass of a given substance.
- 2. What is the branch of science that deals with the identification of the substances of which matter is composed?
- 3. Solution with a lower concentration of H⁺ ions (pH 7-14)
- 4. The process by which compounds are formed or broken down.

- 7. the number of representative particles contained in one mole of a substance; equal to 6.02×10^{23} particles.
- 8. any substance containing free ions that make the substance electrically conductive.
- 10. One _____ is equal to 6.02×10^{23} atoms.
- 11. A formula with the lowest whole-number ratio of elements in a compound
- 14. What is the unit that Avogadro's number forms?
- 15. Atoms with the same atomic number that have different numbers on neutrons.