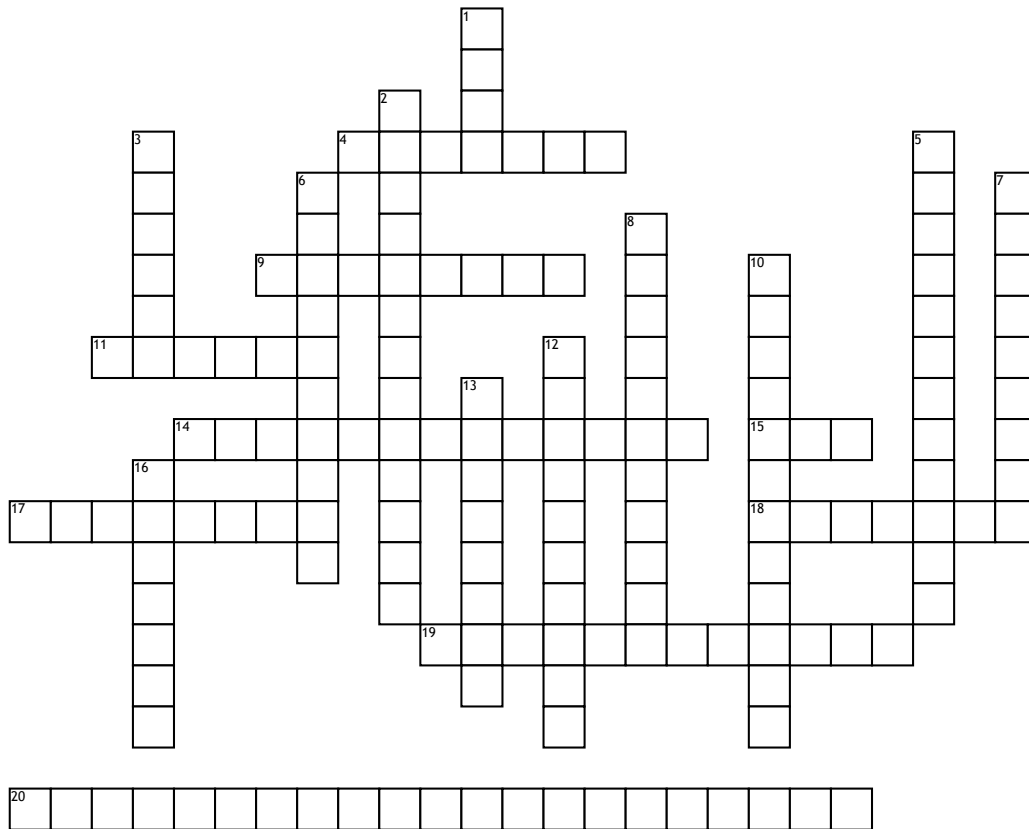


Atomic Structure



Across

- 4. All matter is made up of this
- 9. Versions of the same element with different numbers of neutrons
- 11. Positive Charge
- 14. a lasting attraction between atoms, ions or molecules that enables the formation of chemical compounds.
- 15. An atom with a charge (unequal number of protons and electrons)
- 17. A group of atoms bonded together
- 18. Center of an atom

19. a chemical bond that involves the sharing of electron pairs between atoms.

20. The arrangement of electrons around the nucleus of an atom.

Down

- 1. Smallest Unit of Matter
- 2. A visual model showing the most likely locations for the electrons in an atom
- 3. Everything is made up of this
- 5. The possible energies that an electron in an atom can have.

6. Number of protons and neutrons in the nucleus of an atom

7. A thing that is composed of two or more elements

8. When all of the electrons in an atom have their lowest possible energies

10. This number identifies the element and is equal to the number of protons found in the nucleus.

12. The weighted average mass of all of an element's isotopes' mass numbers

13. Negative charge

16. Neutral charge

Word Bank

- | | | | |
|----------------|---------------|---------------|------------------------|
| Compounds | Atomic Mass | Covalent Bond | Chemical Bonds |
| Energy Levels | Nucleus | Neutron | Ion |
| Electron Cloud | Element | Molecule | Ground State |
| Matter | Mass Number | Isotopes | Electron Configuration |
| Atom | Atomic Number | Electron | Proton |