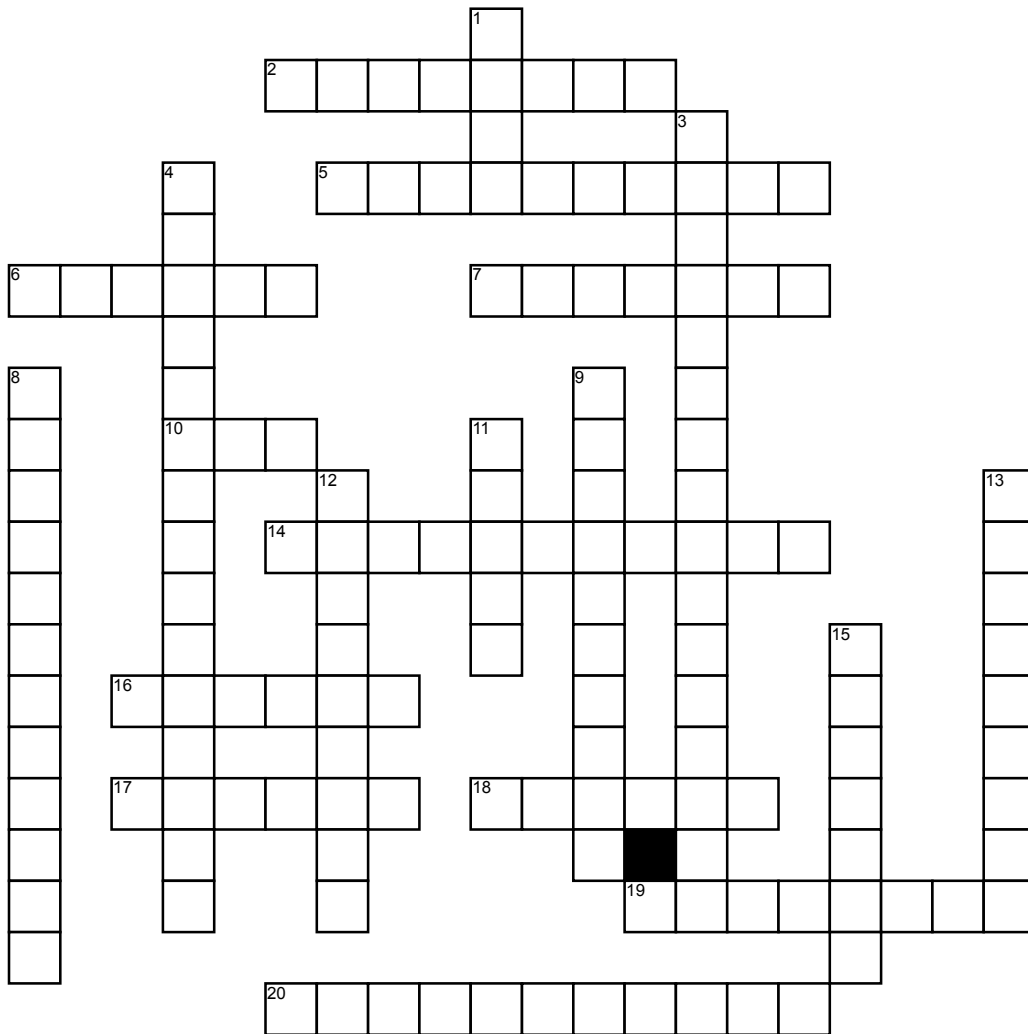


Periodic Table of Elements



Across

- 2. a negatively charged particle found in the valence level of an atom
- 5. the total number of protons and neutrons in the nucleus of an atom mass number any atoms having the same number of protons but a different number of neutrons
- 6. another name for group
- 7. the center of an atom, made up of protons and neutrons
- 10. an atom or a group of atoms that has lost or gained one or more electrons and therefore has a net electric charge
- 14. the properties of elements normally repeat in a similar pattern when elements are arranged in order of increasing atomic number

Word Bank

- | | | | | |
|--------------|-------------------|-----------|------------------|---------------|
| electron | periodic law | period | atom | atomic mass |
| metals | valence electrons | isotopes | nonmetals | atomic number |
| energy level | ionization | metalloid | family | group |
| ion | proton | nucleus | Dmitri Mendeleev | neutron |

- 16. the elements that are good conductors of heat and electricity
- 17. arranged in order of increasing atomic number periodic law a horizontal row of elements in the periodic table
- 18. a positively charged particle in the nucleus of an atom
- 19. atom having the same number of protons but a different number of neutrons
- 20. any of the possible energies found in an electron in an atom

Down

- 1. the smallest particle in an element
- 3. an electron in the outermost energy level of an atom
- 4. created the periodic table of elements

- 8. the number of protons in the nucleus of an atom
- 9. the process of adding electrons to or group of atoms or removing electrons from an atom
- 11. a vertical column of elements in the periodic table
- 12. an element that has properties of both a metal and nonmetal
- 13. the elements that are usually poor conductors of heat and electricity
- 15. a neutral particle in the nucleus of an atom