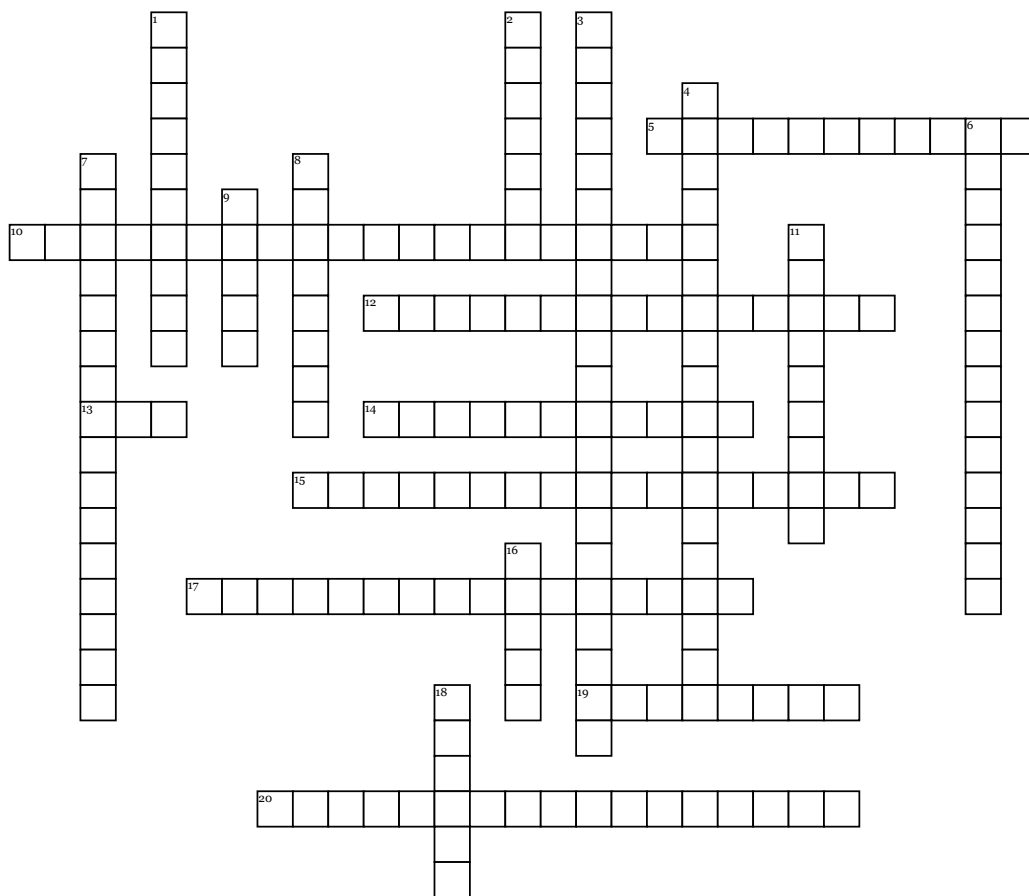


Periodic Table Crossword



Across

5. group 1 elements, except for hydrogen, they are reactive and usually exist as compounds with other elements.

10. a type of group B element that is contained in the f-block of the periodic table and is characterized by a filled outermost orbital, and filled or partially filled 4f and 5f orbitals.

12. an element in group 3-12 that is contained in the d-block of the periodic table and, with some exceptions, is characterized by a filled outermost s orbital of energy level n, and filled or partially filled d orbitals of energy level n-1.

13. an atom or bonded group of atoms with a positive and negative charge

14. that when the element are arranged by increasing atomic number, there is a periodic repetition of their properties.

15. indicates the relative ability of an element's atoms to attract electrons in a chemical bonds.

17. in the periodic table, the f-block elements from period 6 that follow the element lanthanum.

19. an extremely unreactive group 18 element

20. elements in groups 3-12 of the modern periodic table and are further divided into transition metals and inner transition metals

Down

1. states that atoms lose, gain, or share electrons in order to acquire the stable electron configuration of a noble gas

2. a highly reactive group 17 element.

3. elements from group 1, 2, and 13-18 in the modern periodic table, possessing a wide range of chemical and physical properties.

4. Group 2 elements in the modern periodic table and are highly reactive.

6. n the periodic table, the f-block elements from period 7 that follow the element actinium.

7. the energy required to remove an electron from a gaseous atom; generally increases in moving from left-to-right across a period and decreases in moving down a group.

8. elements that are generally gases or dull, brittle solids that are poor conductors of heat and electricity.

9. a vertical column of elements in the periodic table arranged in order of increasing atomic number; also called a family.

11. an element that has physical and chemical properties of both metals and nonmetals

16. an element that is solid at room temperature, a good conductor of heat and electricity, and generally is shiny; most metals are ductile and malleable.

18. A horizontal row of elements in the modern periodic table.

Word Bank

Representative Element

Period

Periodic law

Electronegativity

Ionization Energy

Metal

Alkaline Earth Metal

Transition Metal

Actinide Series

Group

Inner Transition Metal

Nonmetal

Ion

Alkali Metal

Noble Gas

Lanthanide Series

Halogen

Octet Rule

Metalloid

Transition Element