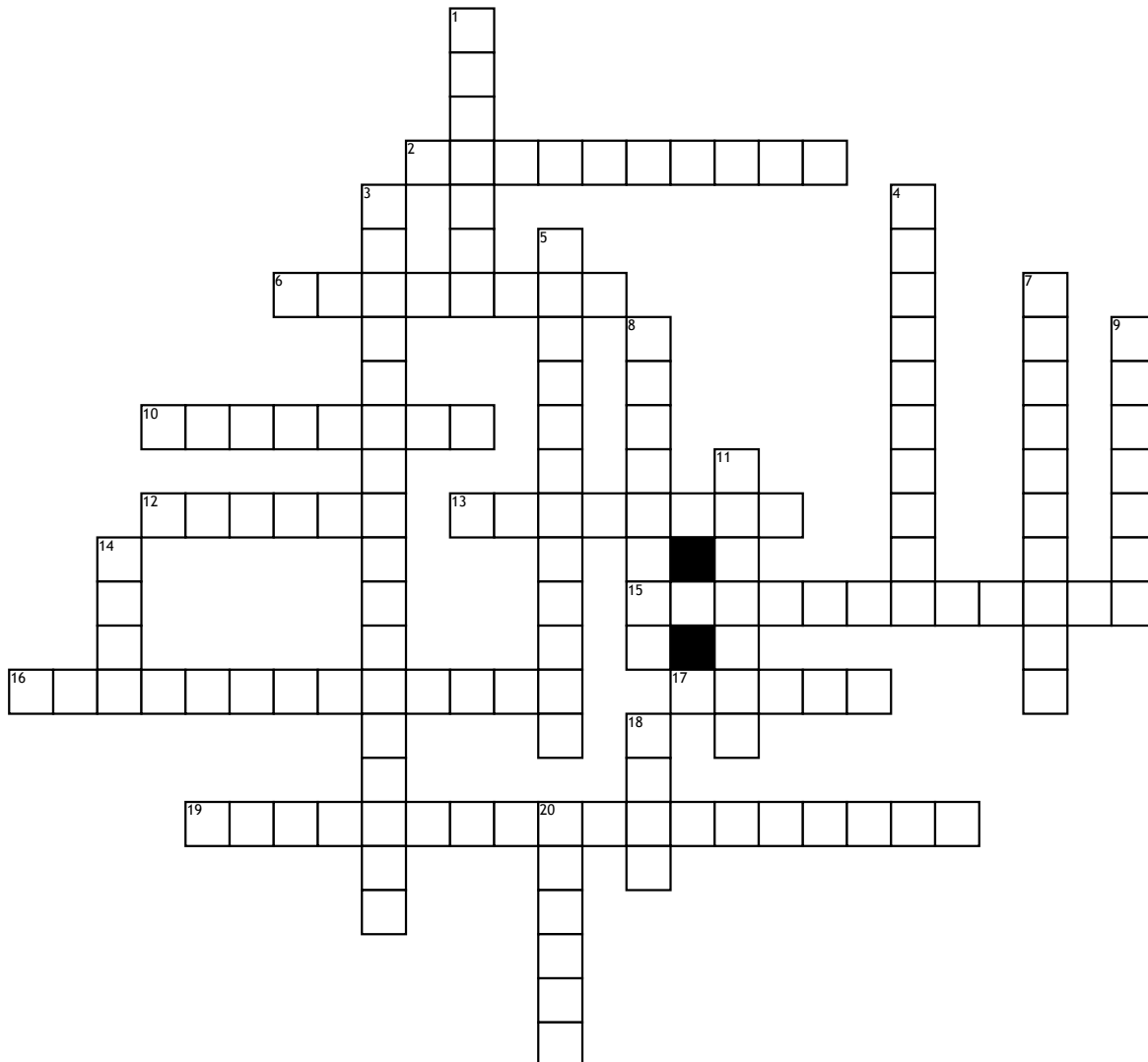


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# periodic table



## Across

2. the mass of an atom of a chemical element expressed in atomic mass units  
 6. a part or aspect of something abstract  
 10. an open-source framework  
 12. a unit used in expressing the molecular weight of proteins, equivalent to atomic mass unit  
 13. is a non conductor  
 15. is a measure of the size of its atoms  
 16. has all elements name  
 17. is a conductor  
 19. often referred to as observables

## Down

1. each of two or more forms of the same element that contain equal numbers of protons

3. Electronegativity is a measure of the tendency of an atom to attract a bonding pair of electrons  
 4. the total number of protons and neutrons in a nucleus  
 5. the number of protons in the nucleus of an atom, which determines the chemical properties of an element and its place in the periodic table  
 7. Ionization is the process by which an atom or a molecule acquires a negative or positive charge by gaining or losing electrons to form ions, often in conjunction with other chemical changes  
 8. any of the gaseous elements helium, neon, argon, krypton, xenon, and radon, occupying Group 0 (18) of the periodic table

9. the central and most important part of an object, movement, or group, forming the basis for its activity and growth  
 11. denoting lamps and radiant heat sources using a filament surrounded by the vapor of iodine  
 14. a theory of atomic structure  
 18. the basic unit of a chemical element.  
 20. a stable subatomic particle occurring in all atomic nuclei, with a positive electric charge equal in magnitude to that of an electron, but of opposite sign