

### **Biology: Unit III- Chemistry of Life Practice Activity**

*Please answer the following questions below by using your “Chemistry of Life Introduction Activity”, guided notes, the online textbook (linked on Canvas), and/or internet resources.*

- 1) Which has more mass, a proton or an electron?
  
- 2) What charge does an electron carry? A proton?
  
- 3) Which subatomic particles are found in the nucleus?
  
- 4) What is the overall charge on the nucleus of an atom?
  
- 5) Which atom has more mass, **nitrogen** or **calcium**?
  
- 6) How many protons does an atom of **sulfur** have?
  
- 7) How many neutrons does an atom of **lithium** have?
  
- 8) Up to how many electrons can the inner shell (energy level) hold?
  
- 9) Name one element whose outer (valence) level is **full**.
  
- 10) Where is the element named in number 9 found on the Periodic table?
  
- 11) Draw the complete (protons, neutrons and electrons) atomic model of a **sodium** atom.  
Is it happy (stable)?
  
- 12) Draw the complete atomic model of a **fluorine** atom.  
Is it happy (stable)?
  
- 13) What is a chemical compound?
  
- 14) What is an isotope?