Study Guide – Quiz – Thursday November 21st

Elements:

C = \_carbon\_\_ H = \_\_hydrogen\_\_ S = \_\_sulfer\_

N= \_nitrogen\_\_ O=\_oxygen\_ Na =\_\_sodium\_ Cl = \_chlorine\_\_\_

Cellular Respiration takes place in the \_\_\_\_mitochondria\_

Formula: C6H12O6 + 6O2🡪 6H2O + 6CO2+ energy

Photosynthesis takes place in the \_chloroplast\_

Formula: \_\_6H2O + 6CO2🡪C6H12O6 + 6O2\_\_

Diffusion: \_\_\_ movement of particles from high to low concentration to be even\_\_

Osmosis: \_movement of water from high to low concentration across a membrane to be even\_

Which way will the water go? Into the cell, out of the cell or both? Draw arrows to indicate which way the water will go.

60% water

30% water

90% water

60% water

60% water

60% water

DNA & RNA

* DNA Scientists: \_Watson\_, \_\_Crick\_\_, \_\_\_\_Franklin\_\_\_
* DNA is in the shape of a \_\_\_\_\_double helix\_\_
* DNA Bases
  + \_\_Adenine\_\_, \_\_Cytosine \_\_\_\_, \_\_Guanine\_\_ and \_\_\_Thymine\_\_
  + \_\_\_Adenine\_\_\_\_ pairs with \_\_\_\_Thymine\_\_\_\_\_\_\_
  + \_\_\_\_Cytosine\_\_ pairs with \_\_\_Guanine\_\_\_
* RNA Bases
  + \_\_\_Adenine\_\_, \_\_Cytosine\_\_\_, \_\_Guanine\_\_ and \_\_Uracil\_\_
* Put together to make………

\_\_DNA\_\_ 🡪 \_\_\_RNA\_\_\_ 🡪 \_\_amino acids\_\_\_ 🡪 \_\_\_proteins\_\_