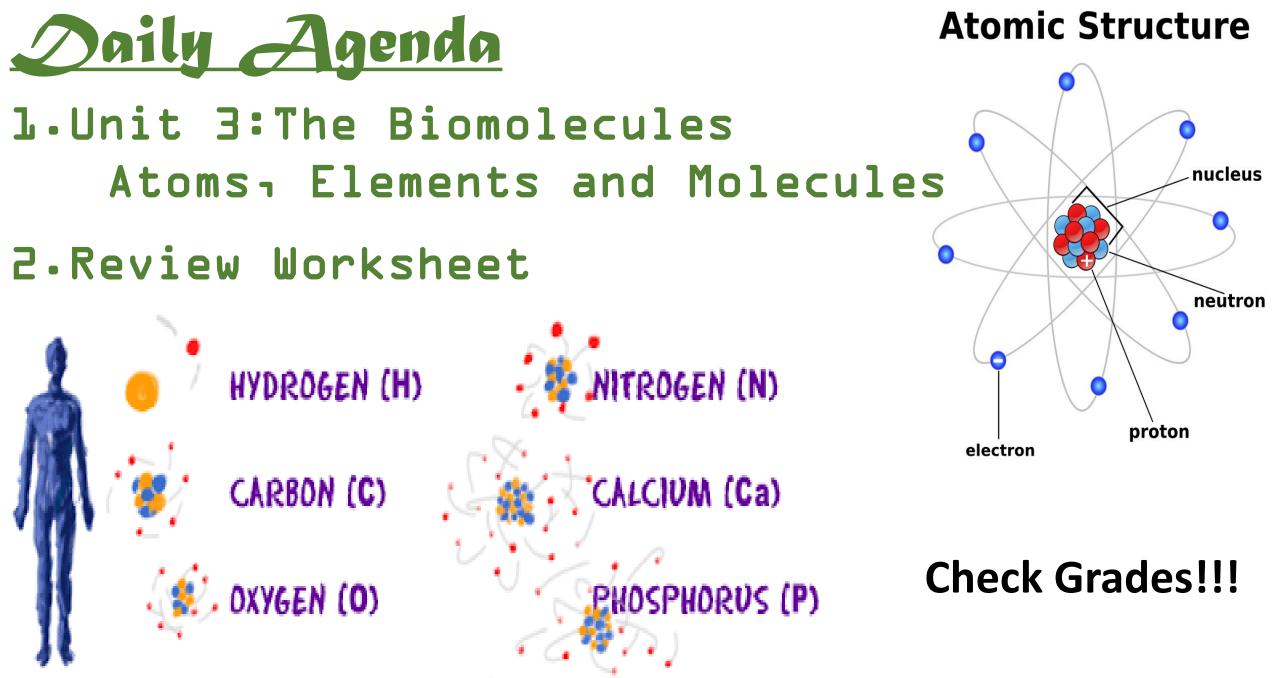
Welcome to Biology

## Wednesday 9/15/21

Phones away and things out of ears please -Masks covering face holes Thank you!!





YOU ARE MADE UP OF DIFFERENT TYPES OF ATOMS

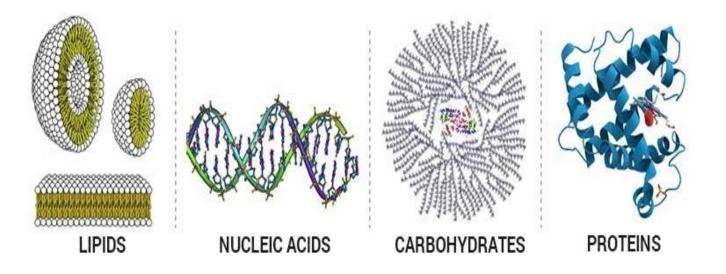
**Unit 3: The Biomolecules** 9/15/21 Living things are <u>primarily made of water</u> but also lots of other stuff.

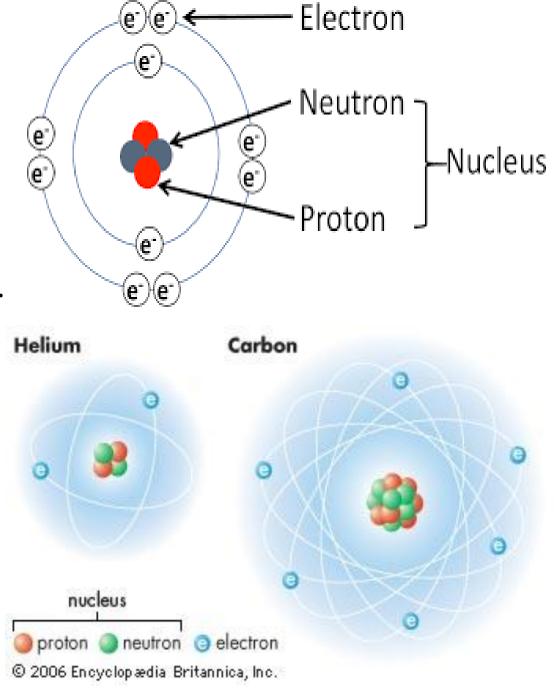
The bulk of that other stuff is made up of <u>four major</u> <u>categories of biomolecules</u>. (See below)

Molecules are <u>combinations of elements</u> joined by <u>chemical bonds</u> (energy that holds the atoms together).

BYJU'S

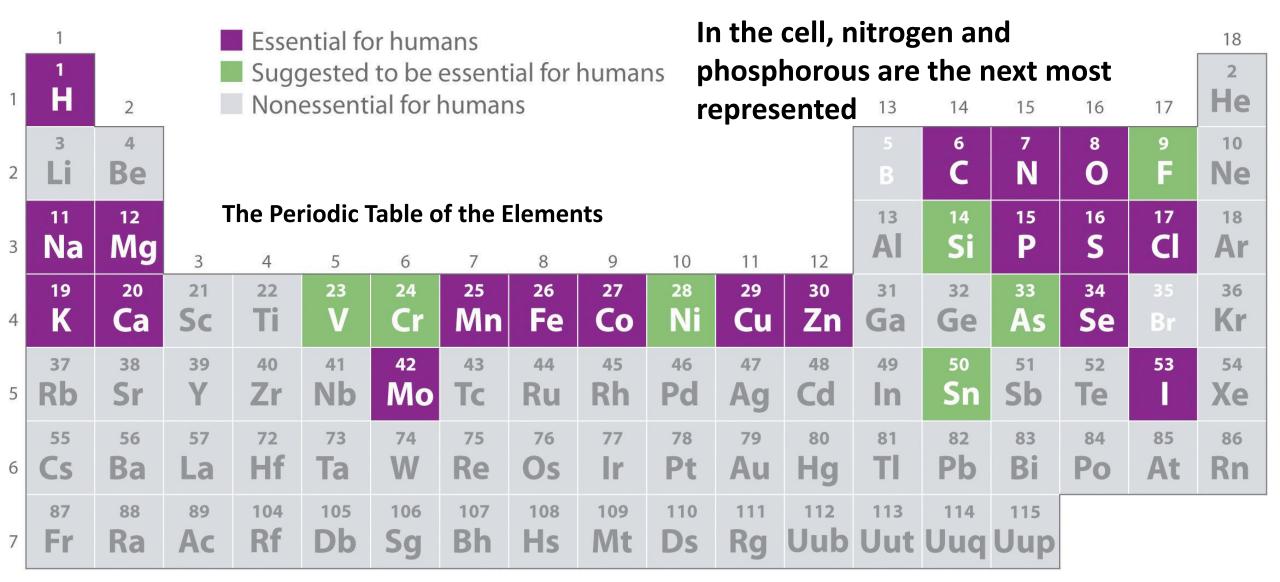
Elements are simply different kinds of atoms. BIOMOLECULES



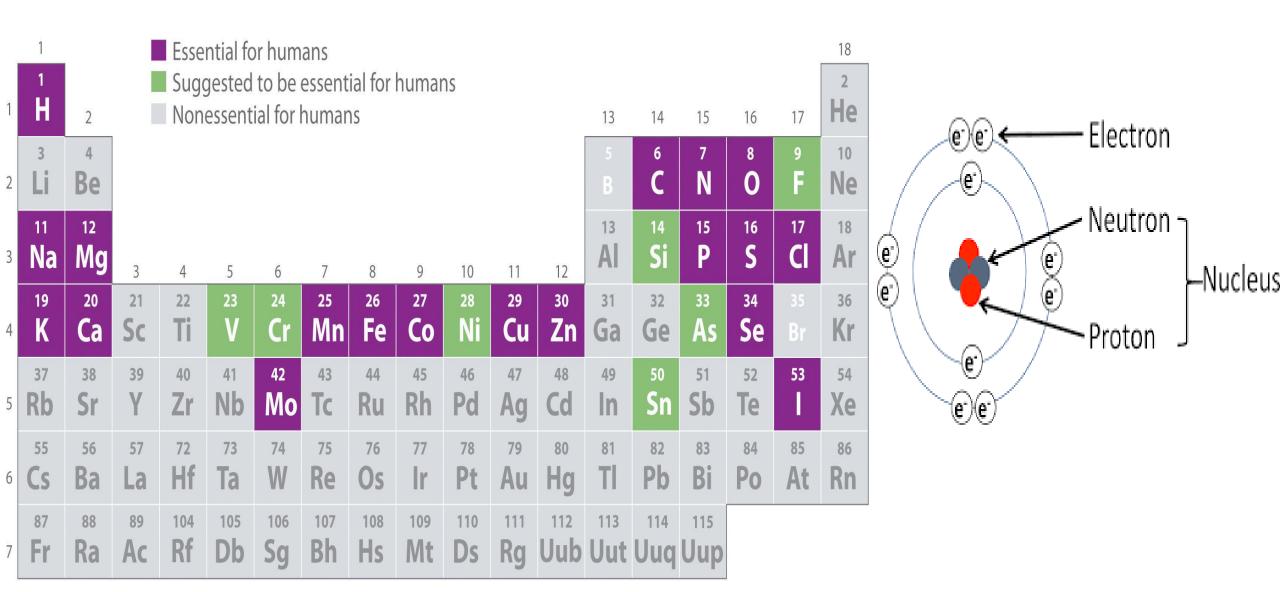


Organisms use approximately 20+ elements

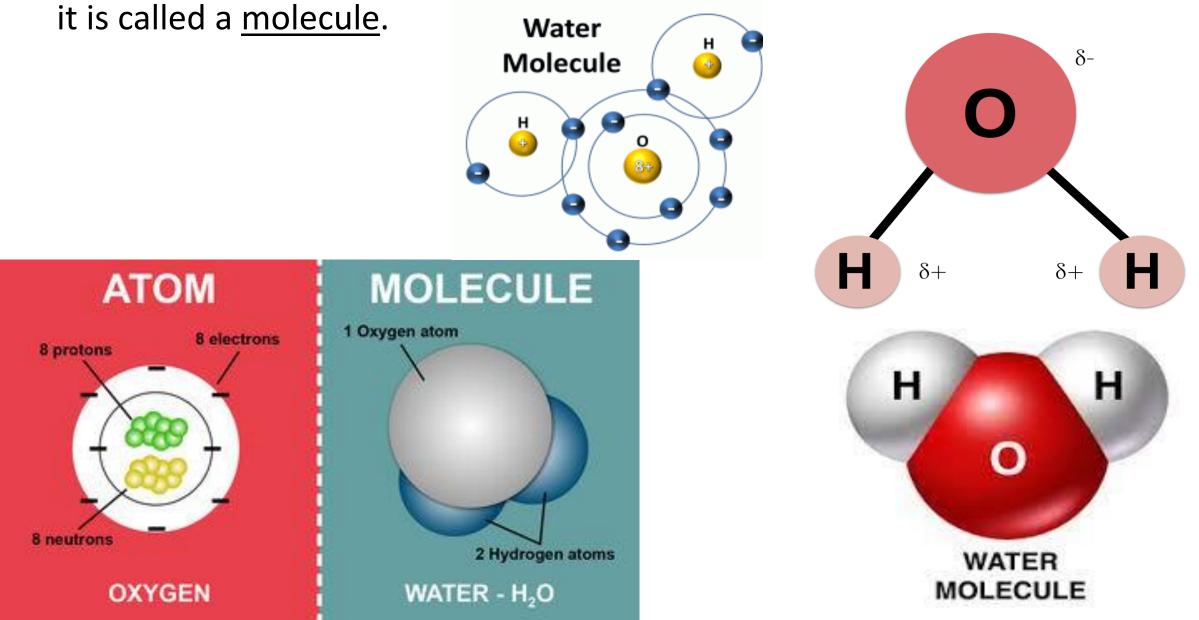
Carbon (C), hydrogen (H) and oxygen (O) are found in all biomolecules. H and O also make water, so C, H and O are very common in cells.



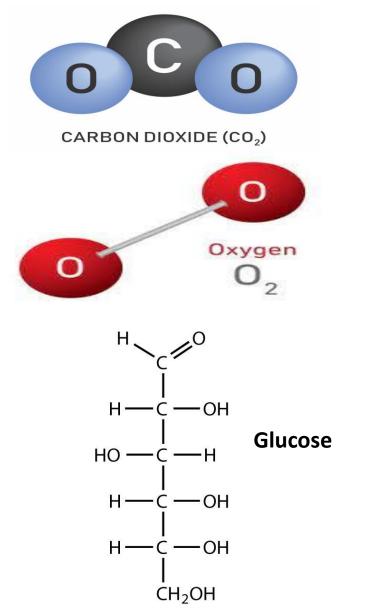
## As you move <u>across and down the periodic table</u> you are <u>adding electrons</u>, protons <u>and neutrons</u>, so <u>elements get heavier</u>, and their <u>chemical behaviors change</u>.

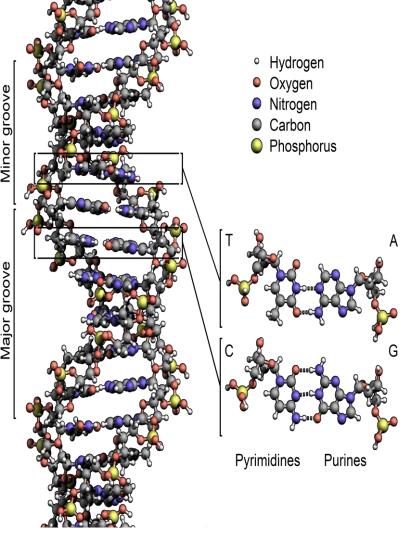


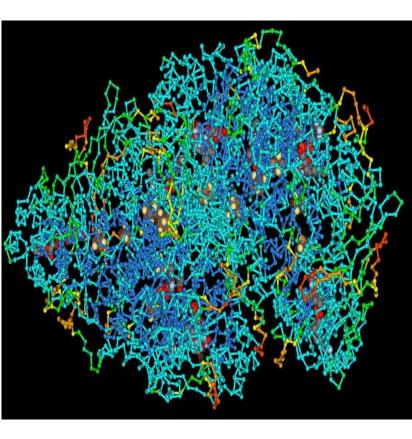
Most atoms do not like to exist alone but instead share electrons to form <u>chemical</u> <u>bonds</u> that will join them to other atoms. When <u>2 or more atoms</u> join together



Some molecules are relatively small (2 to 50 atoms) while some can consist of 100's to billions of atoms. Large molecules are referred to as <u>macromolecules</u>.







Proteins can be huge (for a molecule)

DNA is one of the largest molecules