Objectives:

- 1. Students will be understand the similarities and differences between an element, an atom, and a molecule.
- 2. Students will know what electrons, protons, and neutrons are.
- 3. Students will understand the concepts of atomic number and atomic mass and will be able to find this information on a periodic table.
- 4. Students will be able to use a periodic table to find the number of protons, electrons, and neutrons an element has.

What is biochemistry?

· Dur topic for the next several weeks · Looks at the chemicals that make up organisms · Looks at the chemical reactions that occur in organisms

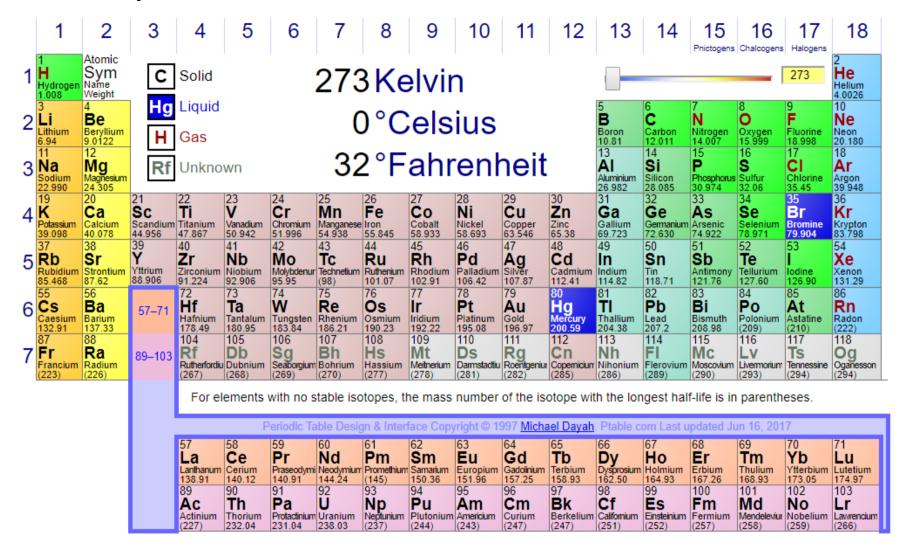
Why are we studying biochemistry?

Chemicals & chemical reactions
are at the heart of everything else
We might look at in Diology

Element: A type of atom - mips differences between elements (like a 2×3 vs. 1×2 lego)

Atom: the building block of everything (minor differences between atoms of the same element - like different colors of 2x3 legs)

Molecule: Groups of atoms housed together (pretty strongly)



Proton: Positive charge (large)

15 Fur Proton

Neutron: No charge (large)

Neutral

Neutral

Electron: Negative charge (thy thuy tiny!)

Atomic Mass: The "weight" of an atom Atomic Mass: protons + reutrons

Atomic Number: # of protons an atom has

(euch element has a different
atoms number - # of neutrons is
electrons can change)

Reading and interpreting the information in each box:

