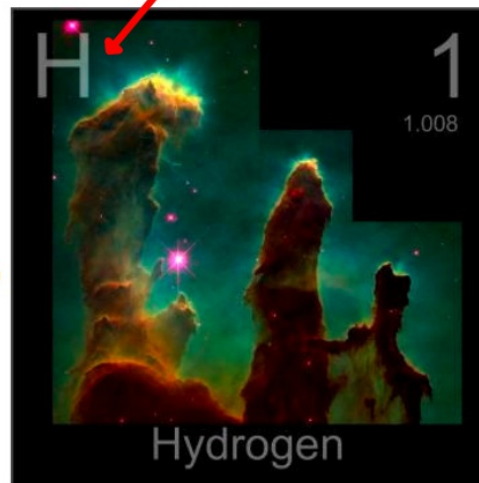


If we know elements are the building blocks of matter...

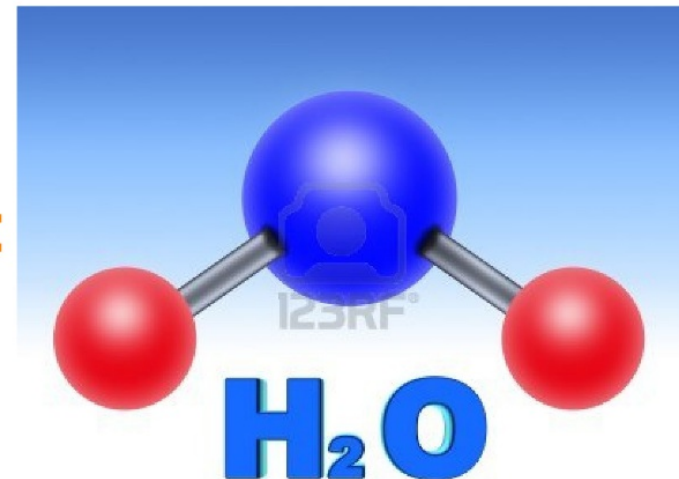
What are the building blocks of elements??????



+



=

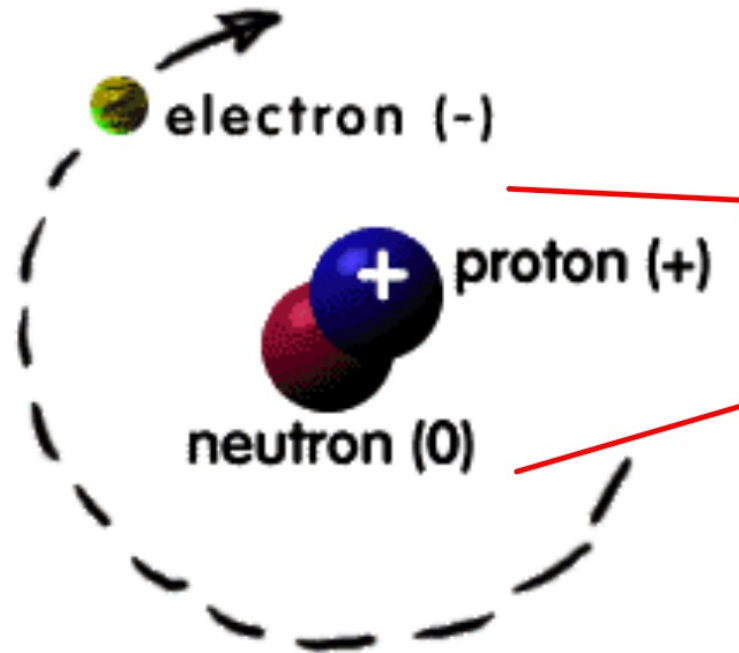


THE ATOM

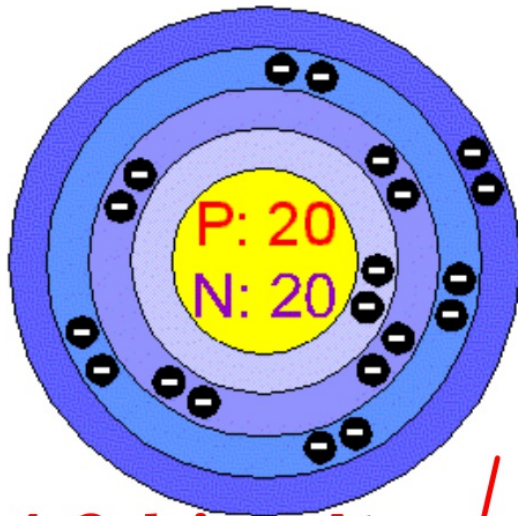


- Elements are composed of extremely small particles called atoms.
- These particles are too small to be seen with a microscope.
- Atoms have all the properties of matter: mass and volume

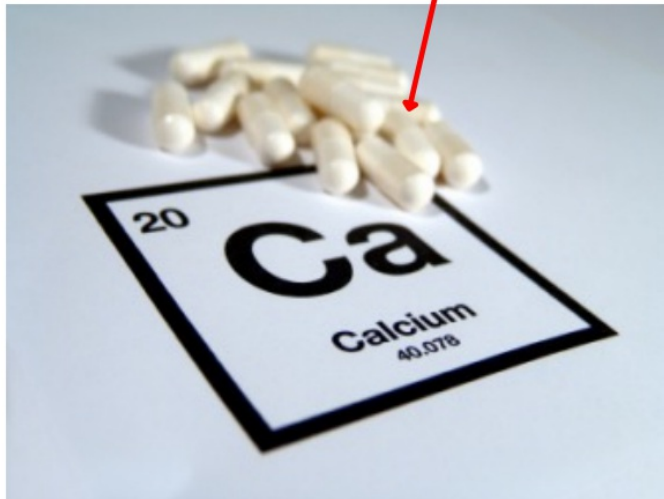
IT'S LIKE THIS...



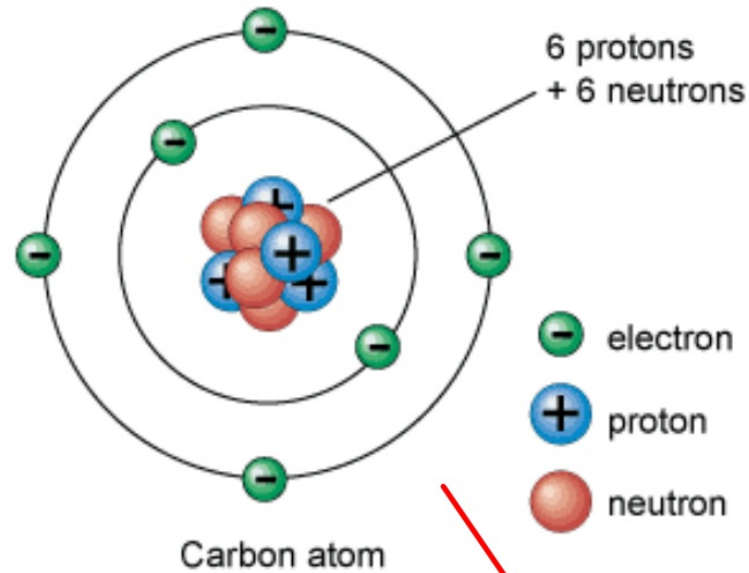
in
nucleus
"center"



1 Calcium Atom



Lots of calcium atoms together



1 Carbon Atom

Lots of carbon atoms together

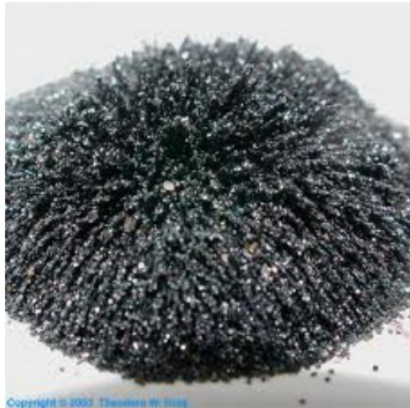


**All atoms of the
same element are
the same.**

**Different atoms = different
elements**

Iron atom = Iron element

**Potassium atom = Potassium
element**



**What is it called then if we take
a lot of different elements (different atoms)
and put them together??**

Element:

Compound:

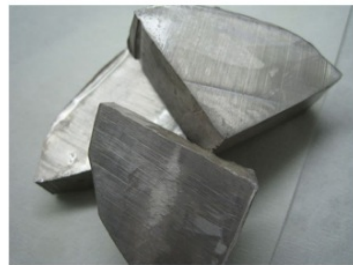
Hydrogen

+

=

Water

Oxygen



sodium metal

+



chlorine gas

→



table salt

All living and non living things that have mass and volume are MATTER COMPOUNDS



All MATTER is composed or 1 or more ELEMENT



All ELEMENTS are made of different ATOMS



Atoms have DIFFERENT numbers of smaller parts (protons, neutrons, electrons)

Big



Small