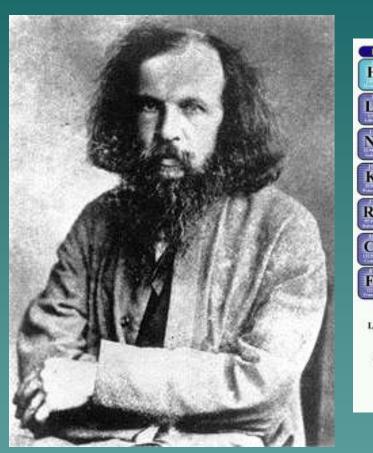
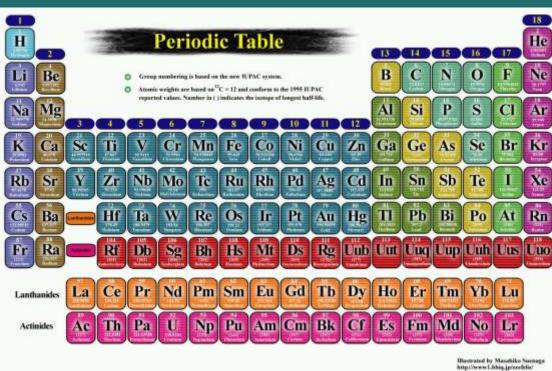
Introduction to the Periodic Table

Atomic Number • Symbol • Atomic Weight

Element • Compound • Mixture

I am Dmitri Mendeleev!

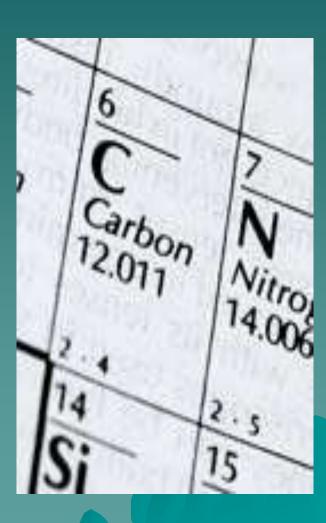




I made the PERIODIC TABLE!

What is the PERIODIC TABLE?

- Shows all known elements in the universe.
- Organizes the elements by chemical properties.



How do you read the PERIODIC TABLE?

6

C

Carbon

12.01

___ Atomic number

— Symbol

— Name

___ Atomic Weight

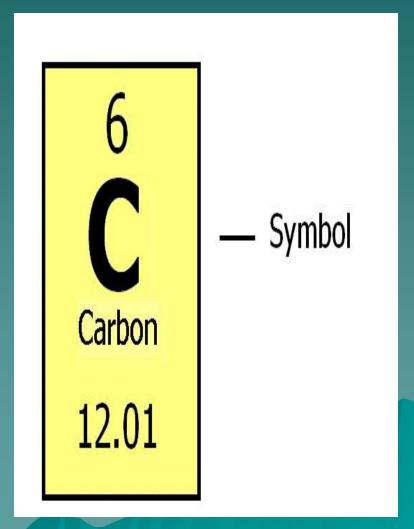
What is the ATOMIC NUMBER?

Atomic number Carbon 12.01

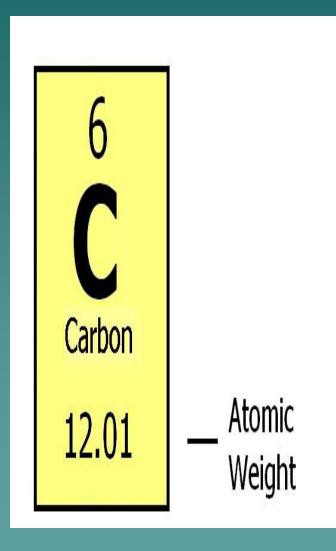
- The number of protons found in the nucleus of an atom
 Or
- The number of electrons surrounding the nucleus of an atom.

What is the SYMBOL?

 An abbreviation of the element name.



What is the ATOMIC WEIGHT?

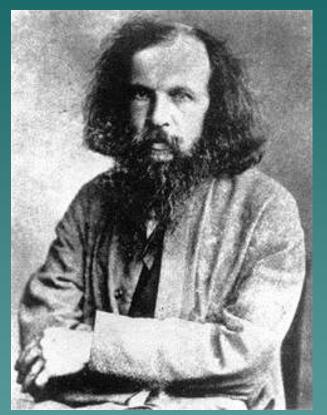


 The number of protons and neutrons in the nucleus of an atom.

How do I find the number of protons, electrons, and neutrons in an element using the periodic table?

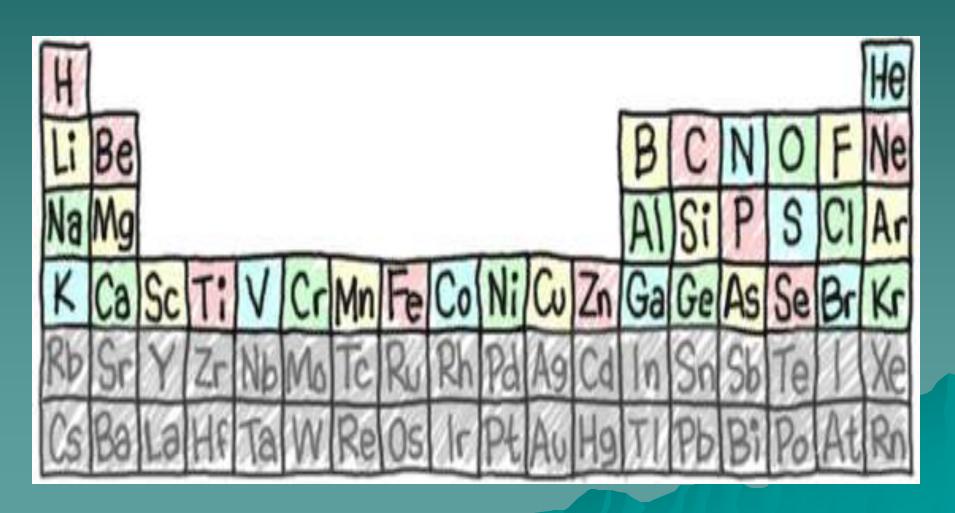
- # of PROTONS = ATOMIC NUMBER
- # of ELECTRONS = ATOMIC NUMBER
- # of NEUTRONS = ATOMIC _ ATOMIC WEIGHT NUMBER

Now you are almost as smart as I am!



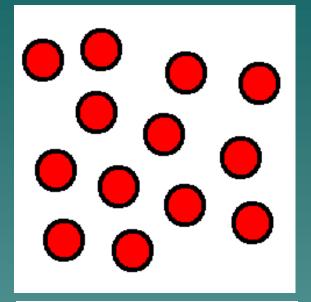
But not as handsome! Man, I look GOOD!

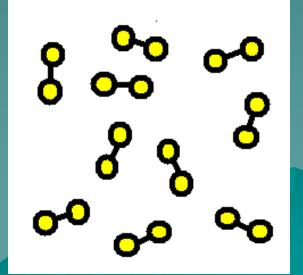
Elements, Compounds, and Mixtures



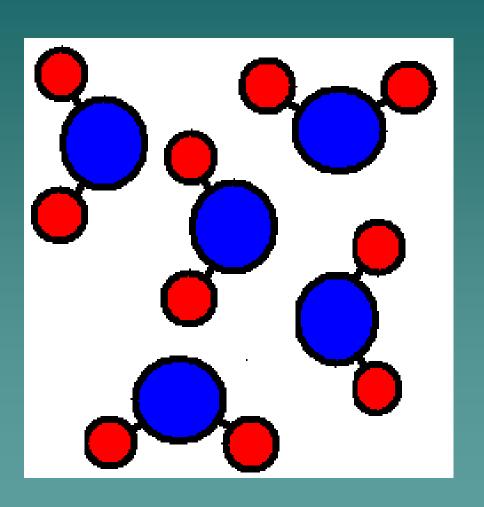
What is an ELEMENT?

- A substance composed of a single kind of atom.
- Cannot be broken down into another substance by chemical or physical means.





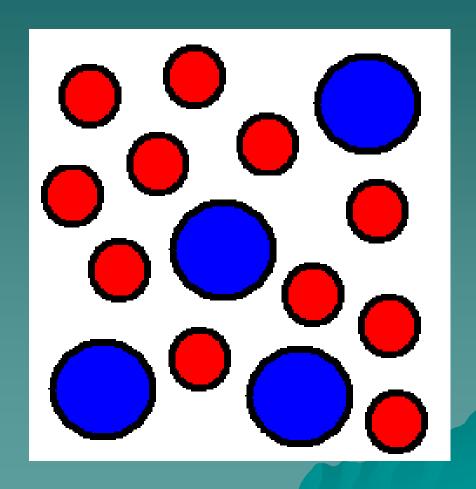
What is a COMPOUND?

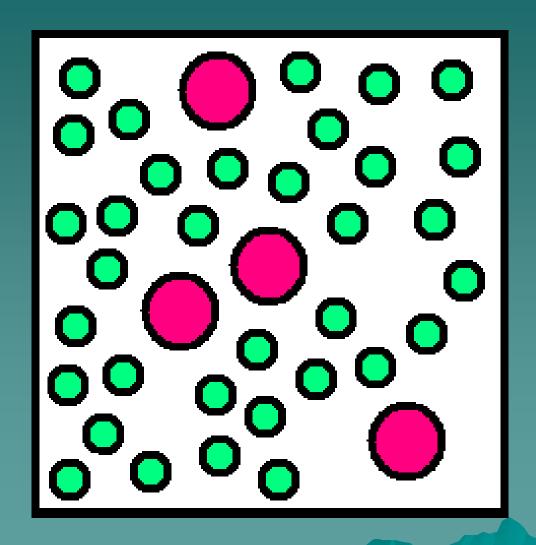


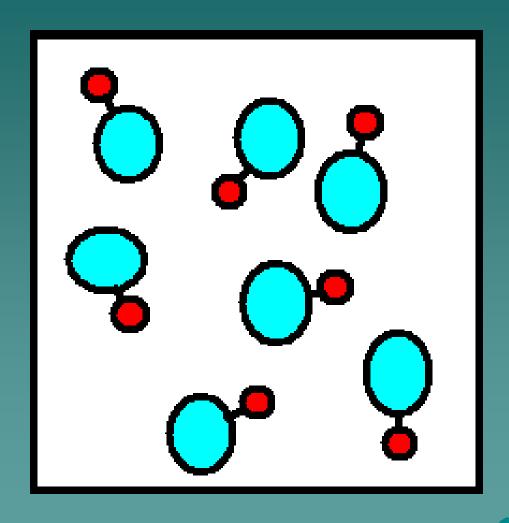
 A substance in which two or more different elements are CHEMICALLY bonded together.

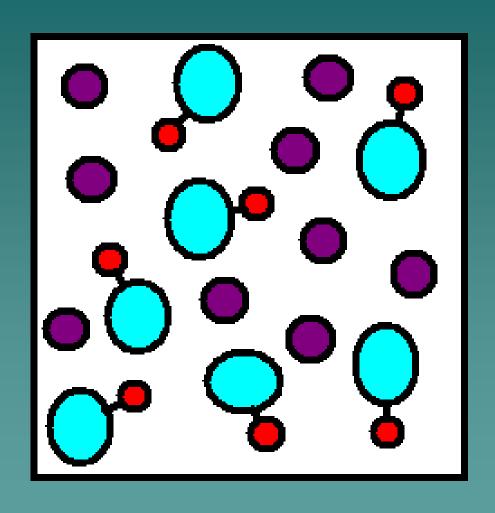
What is a MIXTURE?

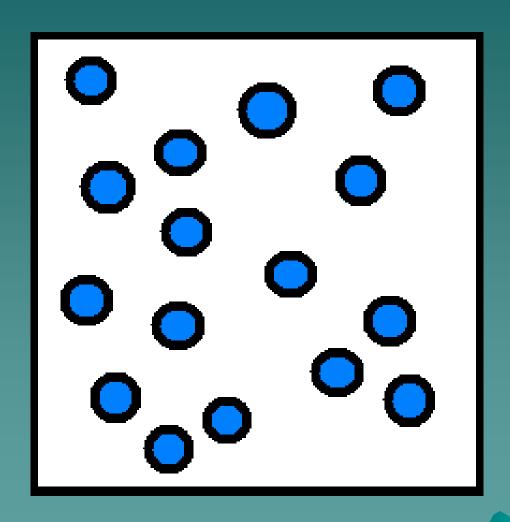
 Two or more substances that are mixed together but are NOT chemically bonded.

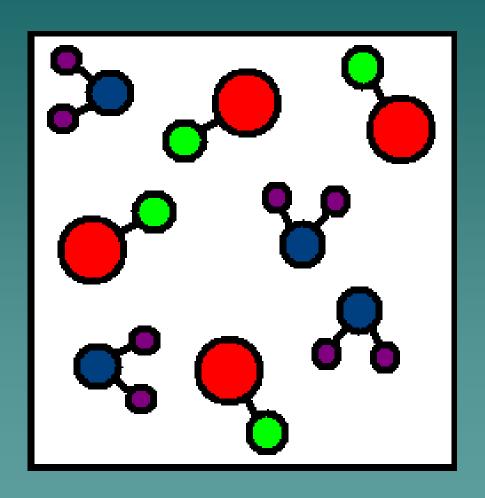


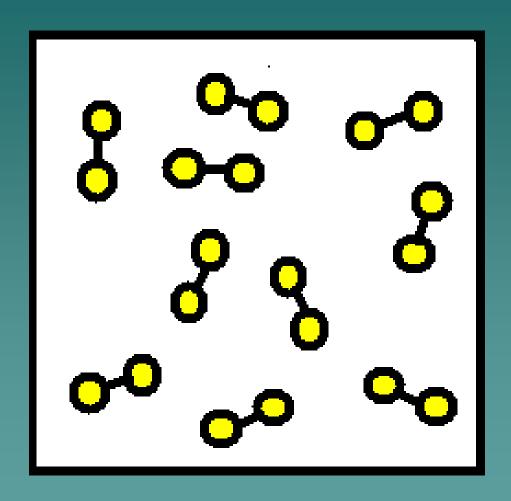




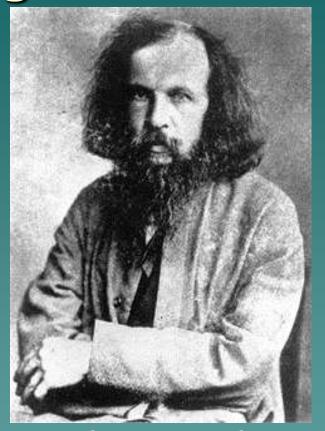








You are still not as handsome as the great Mendeleev!



I am working this beard!
Man, I look GOOD!