

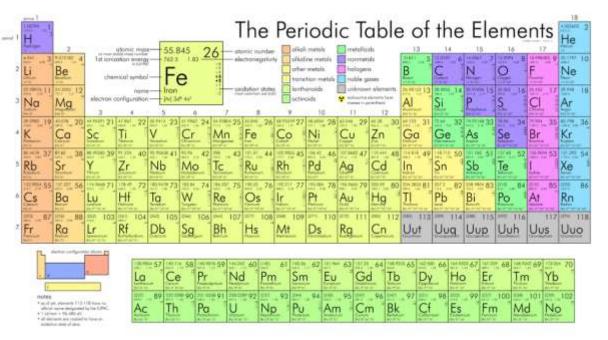
### Intro to the Periodic Table

### The periodic table

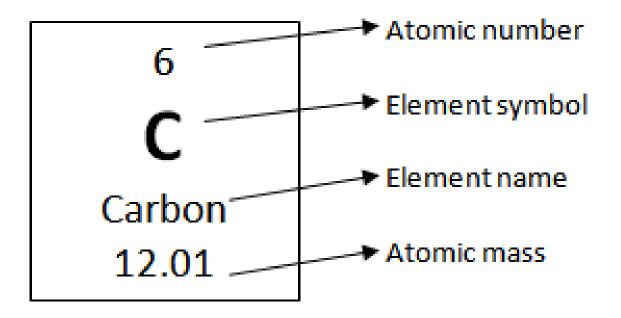
• an organized chart of all of the known elements

•Elements = substances that cannot be broken down into more simple substances

•Each element has its own unique properties



# Information on the periodic table

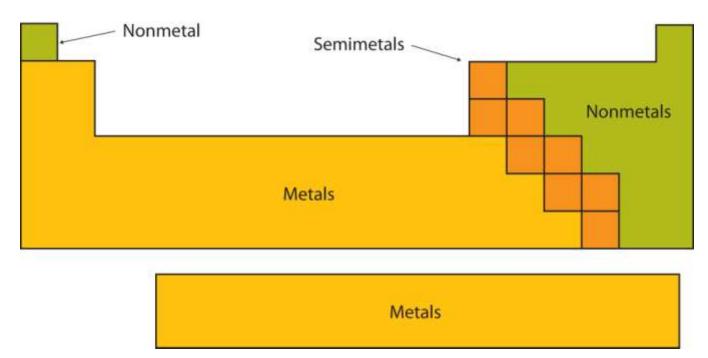


# Organization of the table

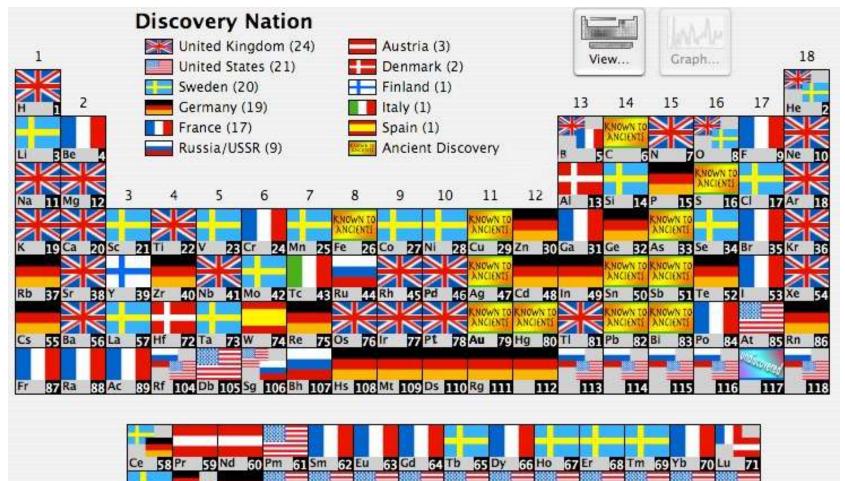
- Elements arranged by atomic number
  - <u>atomic number</u> = number of protons in an atom
- Elements are grouped in columns known as families.
  - Just like human families, element families share common characteristics.

### Metals vs nonmetals

• Most elements on the table are metals and are found on the left. Non-metals are on the right with metalloids inbetween



### Where were they discovered????



Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103

# Elements in Earth Science

- Of the 118 known elements, 98 are naturally occurring on Earth.
- Hydrogen and helium make up most matter in the Universe
- Iron = most abundant element inside the Earth
- Oxygen = most abundant element in the crust
- Nitrogen = most abundant element in the atmosphere