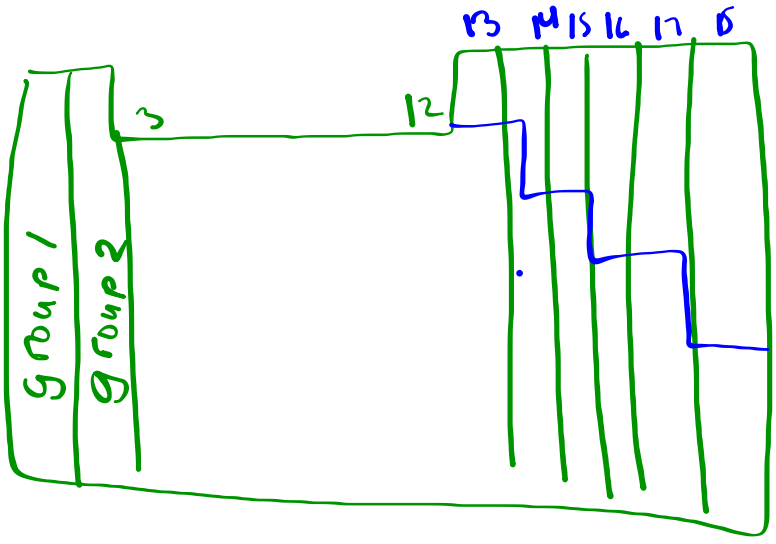
Quiz on Wednesday Mar 1

- → partide theory 1,2,3,4
- → Pure Substance
  - → Solutions
  - → Mixture
    - → Homo / Hetero geneus Mixture
- → Elements, compounds, Atoms, molecules
- ✳ → Coulting atoms
  - → Label Periodic table with names of groups
- ✳→ label atomic number, ion charge, symbol of element, Name of element, atomic Mass



Chemical Symbols and Formulas
Section 2.8

Chemical symbol - is an abbreviation of an name of an element.

Ex) H for Hydrogen comes from the Greek word for "water-former"

Na is sodium

Notice that the single-letter symbol is always capitalized and the first letter of a two-letter symbol is capitalized.

-Single symbols represent elements

-Combination of elements Symbols represent compounds

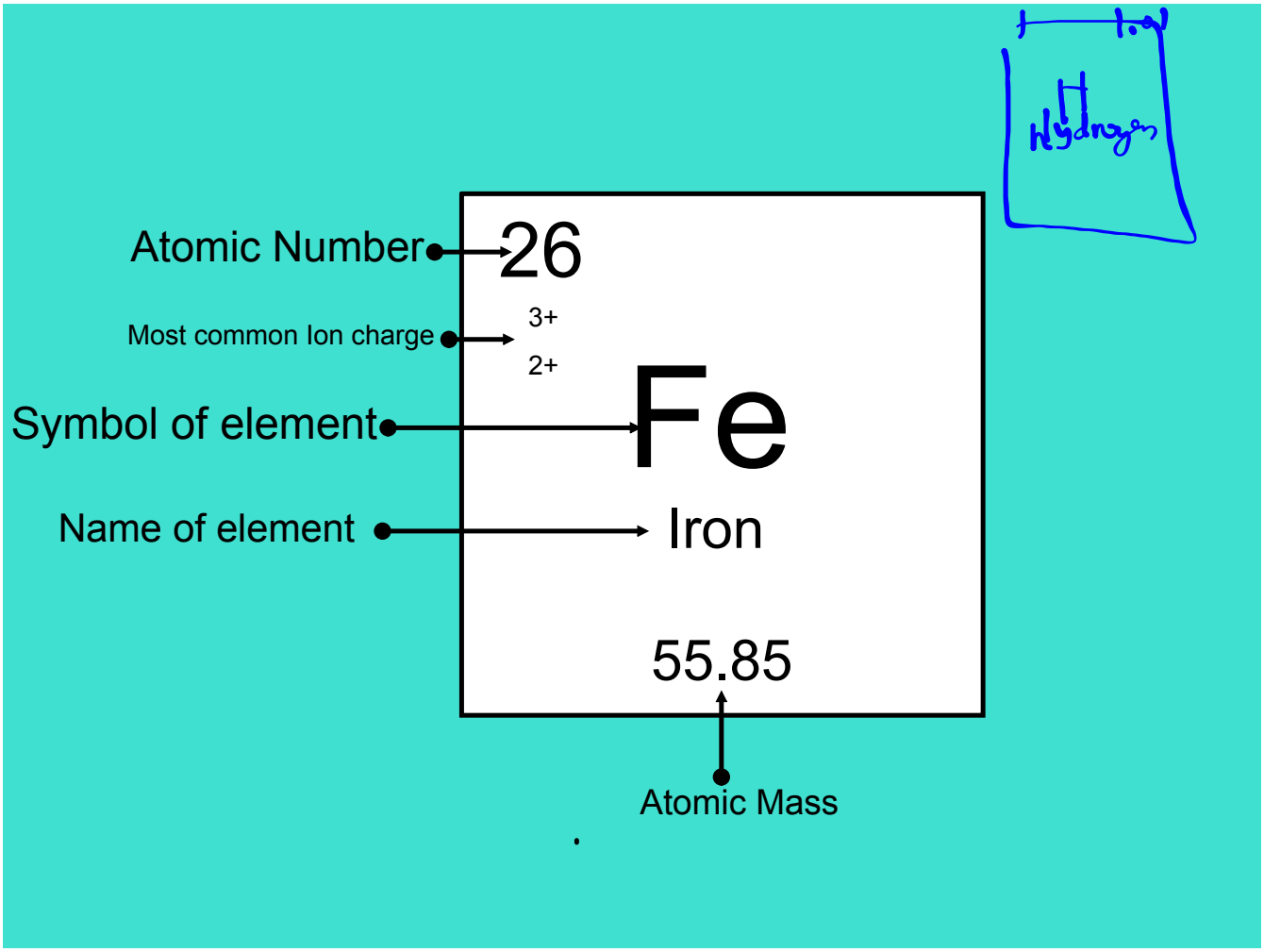
Chemical Formula is a combination of symbols that represents a particular compound.

Ex) $NaHCO_3$ is Sodium Bicarbonate (Baking soda)

$CaCO_3$ is calcium carbonate (Chalk)

$C_2H_4O_2$ is acetic acid (Vinegar)

Each chemical in the formula represents an element. If only one atom of the element is present in the compound, no number is included. If there is more than one symbol followed by a number below the line (subscript), this tells how many atoms of that element are in the compound.


1
1.0
Hydrogen
Atomic Number
26
Most common Ion charge
3+
2+
Symbol of element
Fe
Name of element
Iron
55.85
Atomic Mass


ELECTRONS (-)
0:52 / 3:48
They Might Be Giants: "Meet the Elements" (BB Video)

Tom Lehrer is an American singer-songwriter, satirist, pianist, and mathematician. He is well known for the humorous, satirical songs he recorded in the 1950s and 1960s, with titles like "Poisoning Pigeons in the Park", "The Vatican Rag", and "The Masochism Tango".

The animation you're about to see is based upon one of his most famous creations, a song consisting of little more than the elements of the periodic table (circa 1955). It is sung, as Mr. Lehrer puts it, to a "vaguely recognizable tune".

It's called "The Elements".

Feel free to sing along.

Click the happy little atom to begin.

Names and Formulas for Compounds
Section 2.10

4 a) Na F
Mg F_2
K Br
Zn^{-O}

Read Page 64 - 65

AlF_3
Al_2S_3

Make up your own notes on this section.

Then Answer Questions on Page 65 #1,2,3,4(don't draw ball and hook just write chemical formula), 5

5) Tin (II) Chloride
Tin (IV) Chloride