

Topic/Objective CHAPTER: 3

NAME:

Chemistry

Pd: 1 2 4 5 other

DATE

10

Essential Question

What's a Molecule & The types of Bonds Pt 4

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Atom

↳ basic building block of **matter**
e.g. Oxygen

molecule

↳ are **2** or more **Atoms** ^{chemically bonded} _{combined}
e.g. O_2 ⇒ is still oxygen but there are 2

Types of molecules

↳ 2 ways (types)

homoatomic molecule Heteroatomic Molecules

↳ molecule made up
of the same element

e.g. O_2 we breathe
 O_3 ozone

↳ molecule made up
of different elements

e.g. H_2O

Types of Bonds

↳ **Ionic Bonds**
↳ attractive force
b/t 2 ions of
opposite charges
Transfer ↗

↳ **Covalent Bonds**
↳ attraction of 2 Atoms
for a SHARED PAIR
of electrons
↳ have shape

See

WS 8
Covalent
Ionic
Bonds↳ **Metallic Bond**

↳ **tion** of a metal is
attracted to **metal**

↳ **Hydrogen bond**

↳ F, Cl, Br, I, At
↳ very explosive.

NOTES CONTINUE ON OTHER SIDE



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NOTE Taking AREA:

Elements

↳ is a **pure** substance made of **only** 1 kind of Atom.

e.g. See Periodic table 92 natural elements.

define *

↳ cannot be broken down into a simpler substances by physical or chemical means.

Compound

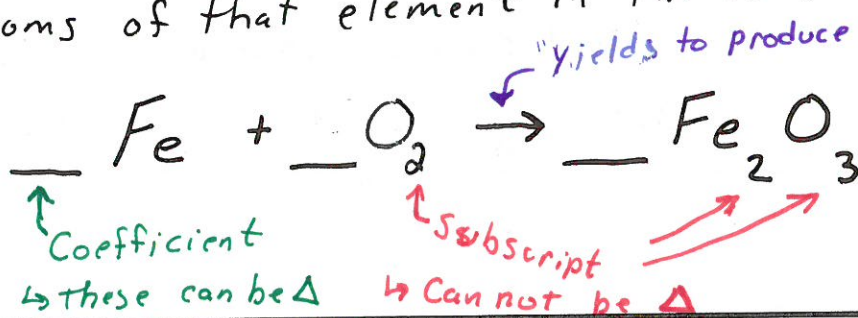
↳ is **2 or more** ^{different} elements held together **Chemically**

e.g.

↳ have different properties from the elements of which they are composed.

↳ represented by chemical formulas that include the symbols for each element followed by a subscript number showing the # of atoms of that element in the compound

Chemical formula



Balance equations: 1) Both side from the Arrow **MUST** "="

2) Can **ONLY** Δ the **Coefficient** =

3) **NEVER** Δ Subscript #

If There is **NO** # insert **1**

4) Balance **H** and **O** Last

W.S. Identifying the substance
W.S. Analyzing the substance AGAIN