



Unit 4: Chemical Reactions

Lesson 6: Isn't it ionic

Guiding Question: Explain the process for naming and writing compounds involving polyatomic ions.

Do Now (page 22):

Name these compounds:

- Na_2S
- Fe_2S_3

Notes (page 22)

- Polyatomic Ions – an ion composed of a group of atoms with an overall positive or negative charge

Polyatomic Ion Name	
OH^{-1}	hydroxide
NO_3^{-1}	nitrate
CO_3^{-2}	carbonate
SO_4^{-2}	sulfate
PO_4^{-3}	phosphate
NH_4^{+1}	ammonium

Notes (page 22)

Example:

1. Na_2CO_3 Sodium Carbonate
2. $(\text{NH}_4)_3\text{P}$ Ammonium Phosphide
3. Calcium Hydroxide $\text{Ca}(\text{OH})_2$
4. Iron (II) Sulfate FeSO_4

Closure

- Answer guiding question on page 22
- Achieve 3000: Schools Teach Green Classes due Friday, 2/23 at 11:59pm