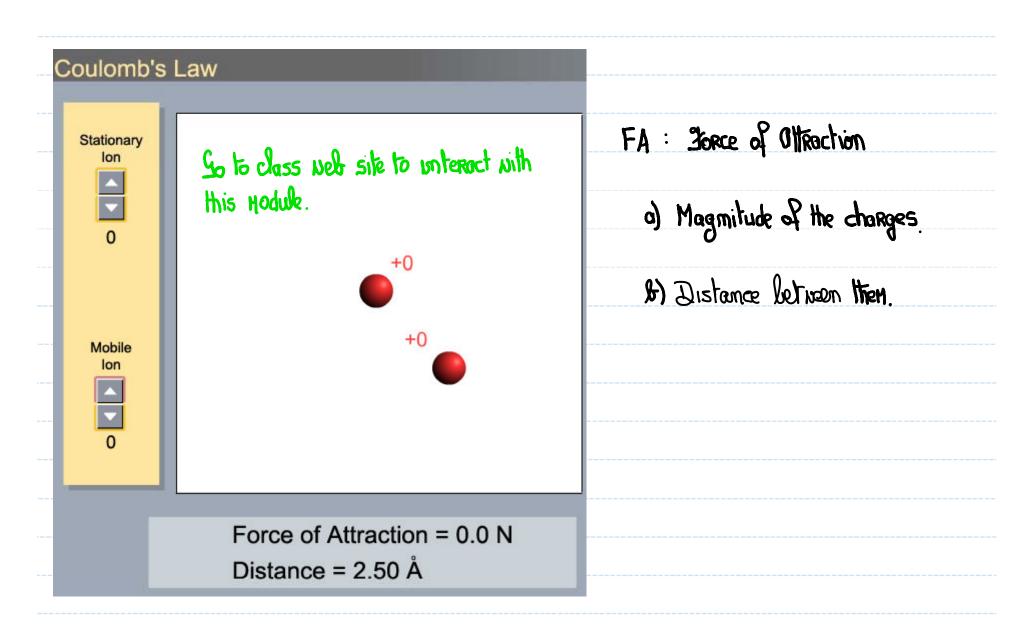
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Slide - 1

## 3.5 What Is an Ionic Bond and What Holds It Together – *Coulomb's Law*



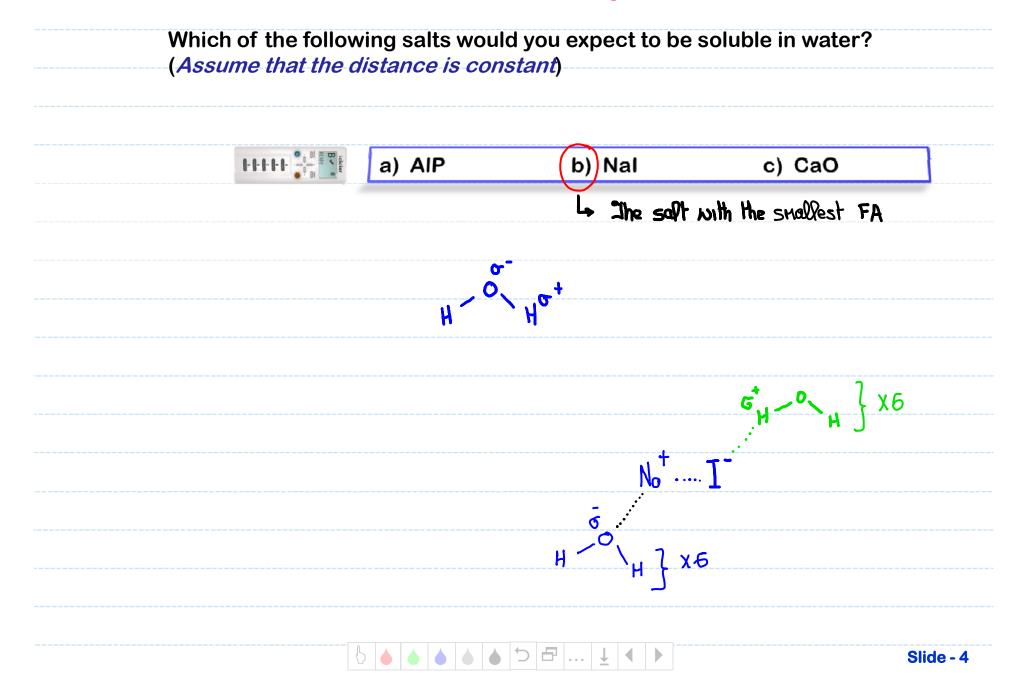
## 3.5 What Is an Ionic Bond and What Holds It Together

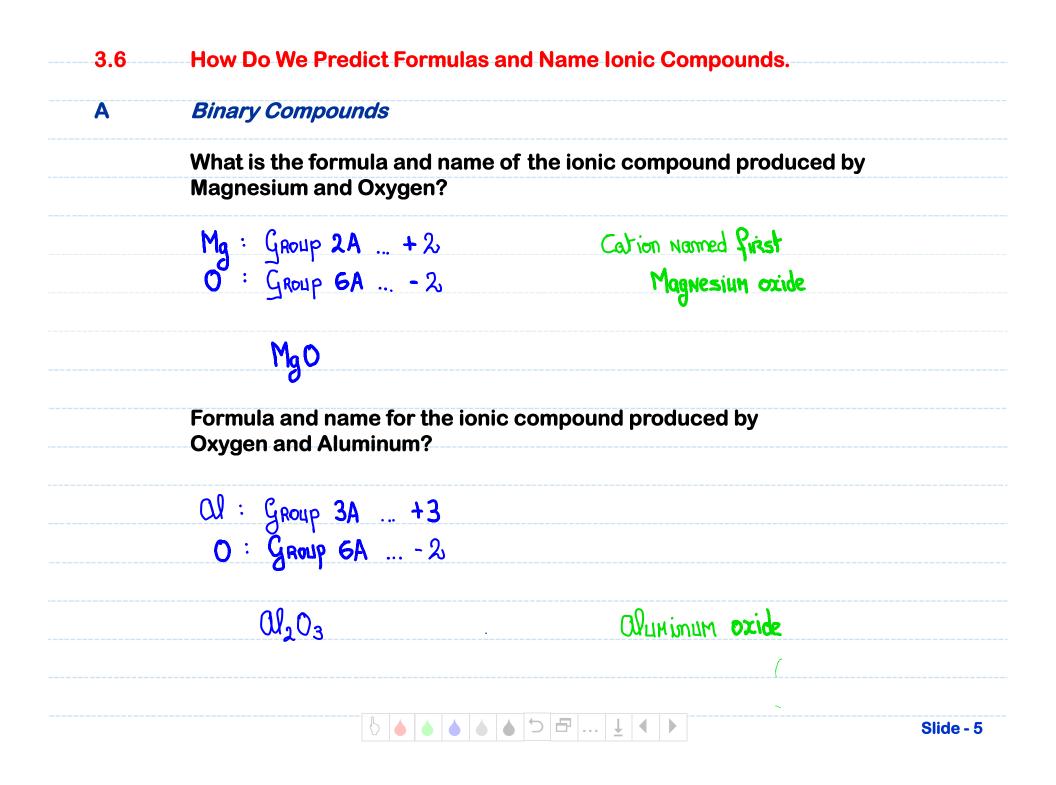
Which of the following three salts have the greatest force of attraction? (*Assume that the distance is constant*)

Na: Gp1A, +1	Ca: Gp 2A, +2
	0. Gp 6A - 2
	Na: yp1A, +1 I: Gp7A, -1



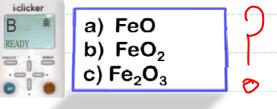
## 3.5 What Is an Ionic Bond and What Holds It Together





## 3.6 How Do We Predict Formulas and Name Ionic Compounds. B Transition Metals

What is the correct chemical formula for the ionic compound Iron oxide?



The name given is an bigious ... you have no may to detern me the charge on the metal (transition metal) based on the name

FeO:? + (-2) = 0? = +29 Ron(II) oxideFeO2:? + 2(-2) = 0? = +49 Ron(IV) oxideFe203:2? + 3(-2) = 0? = +39 Ron(III) oxide

Use Roman Numerals to indicate the charge the Transition Metal.



