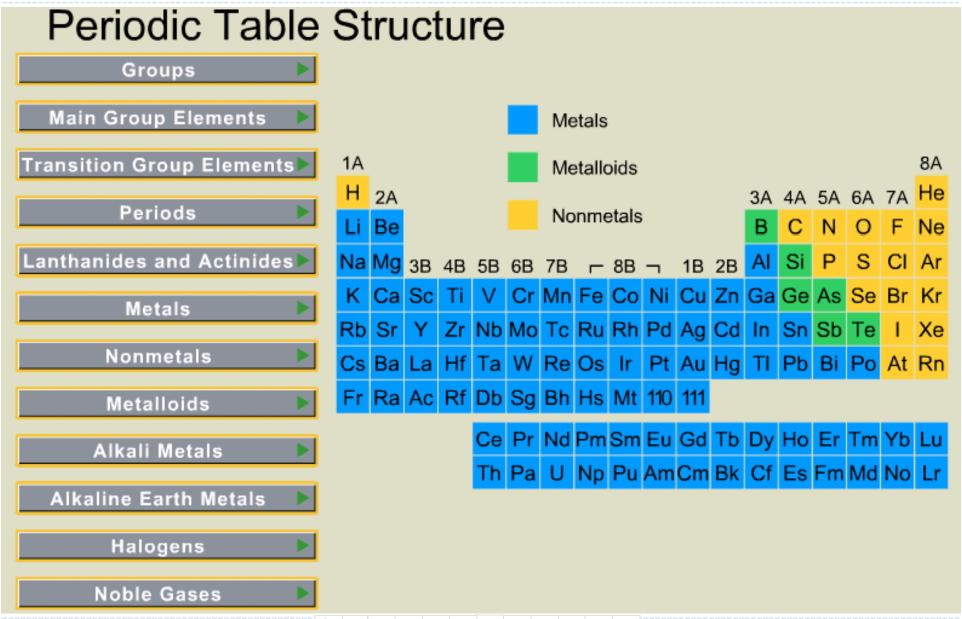


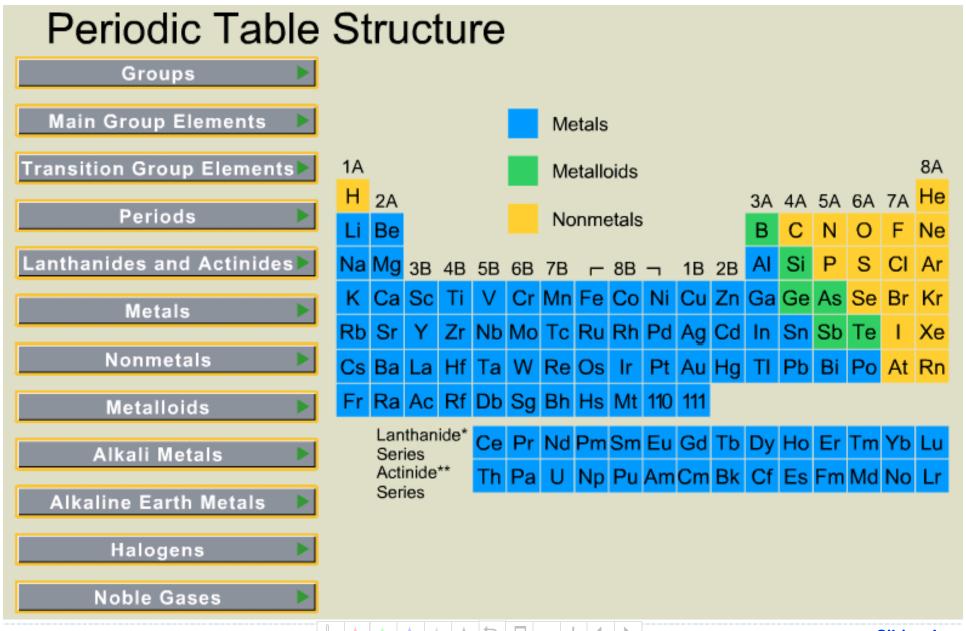
2.5 What Is the Periodic Table

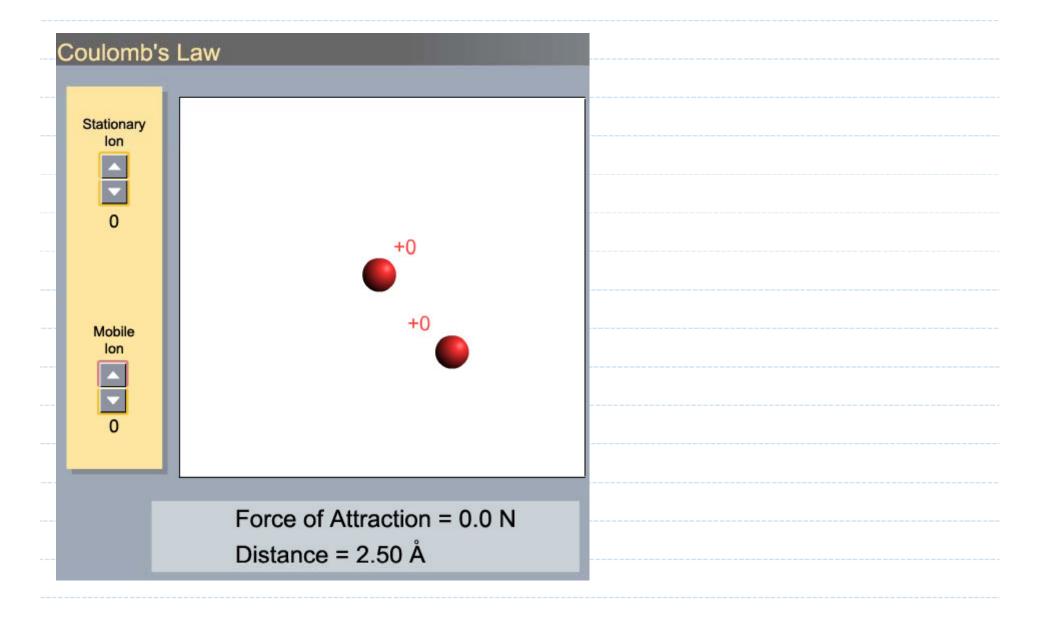
Groups – Periods – Main Group – Transition Metal – Lanthanide – Actinide



Alkali Metals – Alkaline Earth Metals – Halogens – Noble Gases

Periodic Table Structure Groups Main Group Elements Metals Transition Group Elements 8A 1A Metalloids Н 3A 4A 5A 6A 7A 2A Periods Nonmetals Li Be Ne Lanthanides and Actinides Si P ΑI Ca Sc Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr Metals Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te Sr Rb Xe **Nonmetals** Cs Ba La Hf Ta W Re Os Ir Pt Au Hg Tl Pb Bi Po Fr Ra Ac Rf Db Sg Bh Hs Mt 110 111 Metalloids Lanthanide* Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Alkali Metals Series Actinide** Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Series Alkaline Earth Metals Halogens **Noble Gases**





3.5	What Is an Ionic	e Bond and Wha	at Holds It Together	
	Which of the fo (Assume that the			est force of attraction?
		a) AIP	b) Nal	c) CaO
		5 6 6 6	5 월 월 ♦ ▶	Slic

3.5	What Is an Ionic E	Bond and What H	Holds It Together	
	Which of the follo (<i>Assume that the</i>		d you expect to be s stant)	soluble in water?
		a) AIP	b) Nal	c) CaO
				Slide -

3.6	How Do We Predict Formulas and Name Ionic Compounds.	
A	Binary Compounds	
	What is the formula and name of the ionic compound produced by Magnesium and Oxygen?	
	Formula and name for the ionic compound produced by	
	Oxygen and Aluminum?	
	5 6 6 6 5 □ 1	

 3.6	How Do We Predict Formulas and Name Ionic Compounds.	
 A	Binary Compounds	
	Metals lose electrons. Nonmetals gain electrons.	
 To get s	ame number as nearest inert gas.	
	charge equals the group number. als: charge equals group number minus 8.	
Overall	no charge (positives and negatives are equal)	
 	Formula and name for the ionic compound produced by	
 	Oxygen and Aluminum?	
 		Slide - 9

 3.6 B	How Do We Predi Transition Metals		mula	is a	nd N	Nam	e lo	onio	c C	om	ipounds.	
 	What is the corre	ct che	mica	al fo	rmu	ıla fo	or t	he	ion	ic	compound Iron oxide?	
Transiti	on metals: non easi	ily pre	dicta	able	pat	tterr	n (fo	orm	ı ca	atic	ons)	
		iclicker B READY	b		eO eO ₂ e ₂ O ₃							
 					A +	7 5					00.4- 40	
		5						<u>+</u>			Slide - 10	

3.6 B	How Do We Predic Transition Metals	ct Formulas and Name Ionic	c Compounds.	
	What is the correc	ct name for the ionic compo	ound Cu(NO ₃) ₂	
Write	metal (or cation) first	. To this slide on Thursday 9	9/12	
	What is the correct i	name for the ionic compour	nd CuSO₄	
	What is the correct	name for the ionic compour a) Copper(I) sulfate c) Copper(II) sulfate	nd CuSO ₄ b) Copper(I) sulfite d) Copper(II) sulfite	
	iclicker	a) Copper(I) sulfate	b) Copper(I) sulfite	
	iclicker	a) Copper(I) sulfate	b) Copper(I) sulfite	