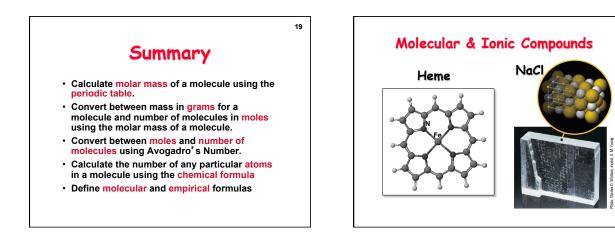
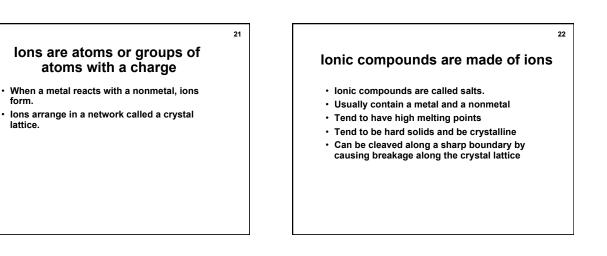
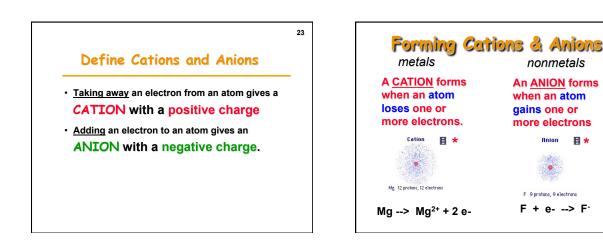


form.

lattice.

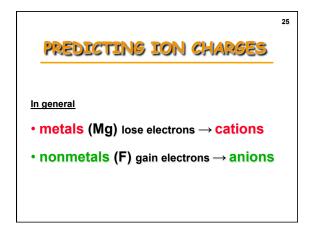


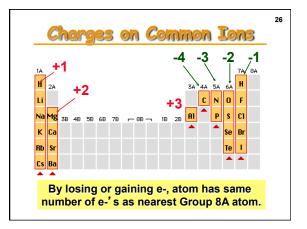




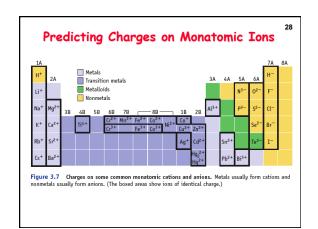
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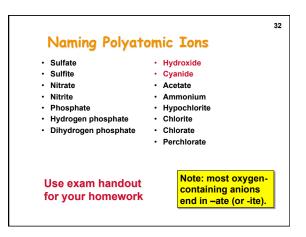
1A	2A											3A	4A	5A	6A	7A	8A
Li+														N ³⁻	O ^{2–}	F-	
	Mg ²⁺	3B	4B	5B	6B	7B	_	8B 人		1B	2B	Al ³⁺		P ³⁻	S ²⁻	Cl⁻	
K+	Ca ²⁺	Sc ³⁺	Ti ²⁺ Ti ⁴⁺	V ²⁺ V ³⁺	Cr ²⁺ Cr ³⁺	Mn ²⁺ Mn ⁴⁺	Fe ²⁺ Fe ³⁺	Co ²⁺ Co ³⁺	Ni ²⁺	Cu ⁺ Cu ²⁺	Zn ²⁺				Se ^{2–}	Br-	
Rb ⁺	Sr ²⁺									Ag+	Cd ²⁺		Sn ²⁺			I-	
Cs+	Ba ²⁺									Au ⁺ Au ³⁺			Pb ²⁺				

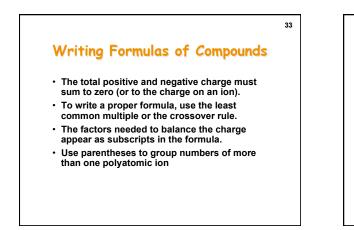


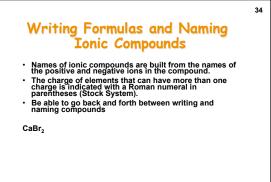


Naming Nonmetal Ions							
	\L + ne- — e n = 8 - G	→ X ⁿ⁻ roup A num	nber				
Group 4A	Group 5A	Group 6A	Group 7A				
C4-,carbide	N ³⁻ , nitride	O ²⁻ , oxide	F ⁻ , fluoride				
•••		S ²⁻ , sulfide	Cl ⁻ , chloride				
Name d by addi			Br, bromide				
to stem	-		l⁻, iodide				
			,				

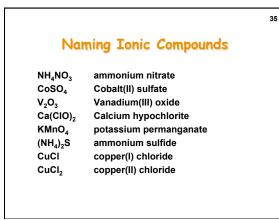
Formula	Typical Compo	ound 3
NH_4^+	NH ₄ Cl	
	Ca(ClO) ₂	
	NaClO ₂	
	NaClO ₃	
	KClO ₄	
	K ₂ CrO ₄	
	(NH ₄) ₂ Cr ₂ O ₇	
OCN	KOCN	
SCN ⁻	KSCN	
CN	KCN	Note: many O
OH-	NaOH	
NO2	NaNO ₂	containing anions
NO ₃ ⁻	NaNO ₃	•
C ₂ O ₄ ²⁻	CaC ₂ O ₄	have names ending
MnO ₄	KMnO ₄	
	Na ₃ PO ₄	in –ate (or -ite).
HPO_4^{2-}	Na ₂ HPO ₄	
$H_2PO_4^-$	NaH ₂ PO ₄	
SO32-	Na ₂ SO ₃	
HSO ₃	NaHSO ₃	
SO42-	Na ₂ SO ₄	
HSO4	NaHSO ₄	
S2O32-	Na ₂ S ₂ O ₃	
	$\label{eq:heat} \begin{array}{l} NH_4^{*} \\ {}^{*}C_2H_3O_2^{} \\ RCO_5^{-} \\ CO_5^{} \\ CO_7^{} \\ RO_7^{} \\ RO_7^{$	NH ₄ " NH ₄ Cl "GH40 ⁻⁷ NaCH ₄ O ₇ "GC ² L ₄ O ₇ CO ² L ₄ O ₇ CO ² ClO ₇ CO ² NaCO ₇ CO ² KCO ₄ CO ² KCO ³ OCN ⁻ KOCN SC ² KCO ³ OCN ⁻ NaO ₇ NaO ₇ NaO ₇ NaO ₇ NaO ₇ NaO ₇ Na ₂ O ₄ HPO ₇ Na ₂ HO ₇ HBO ₇ Na ₂ HO ₇ Na ₂ O ₇ Na ₂ HO ₇ HSO ₇ Na ₂ SO ₄ HSO ₇ Na ₂ SO ₄ HSO ₇ Na ₂ SO ₄

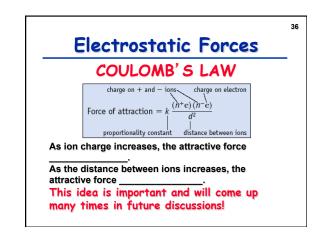


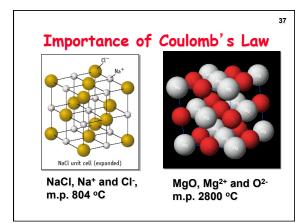


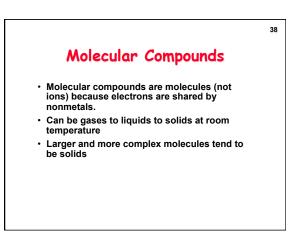


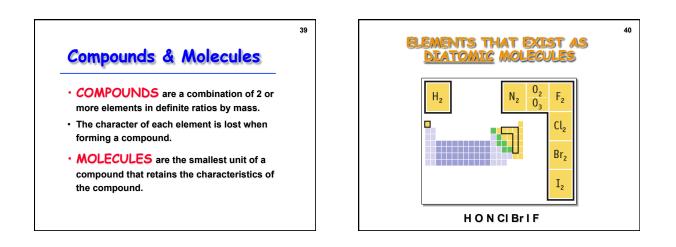
When writing a formula, the total charge must add to the charge on the substance, which is often zero

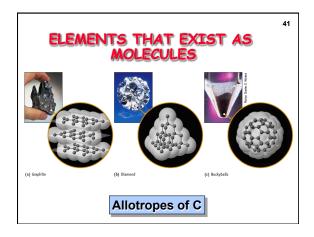


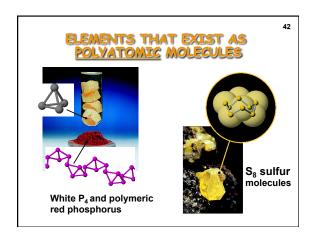


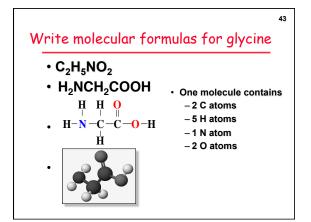


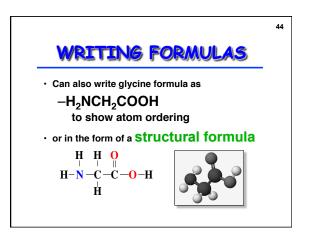


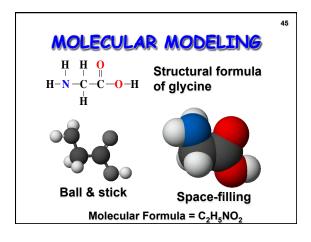


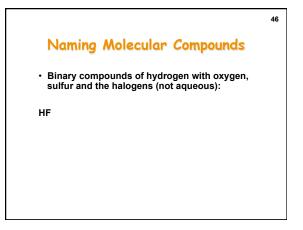


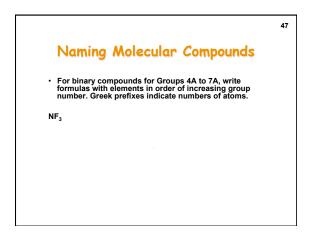


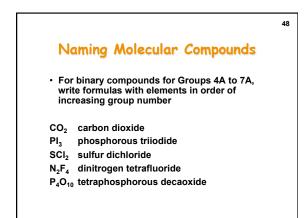












N	aming Molecular Compounds
• Mar	ny binary compounds of nonmetals were covered years ago and have common names
disc	covered years ago and have common names
H,O	water
NH ₃	ammonia
Сн₄	methane
C2H_	ethane
	propane
C ₃ H ₈ C₄H ₁₀	propane butane
C ₃ H ₈	
C₃H ₈ C₄H ₁₀	butane
$C_{3}H_{8}$ $C_{4}H_{10}$ $N_{2}H_{4}$	butane hydrazine

		Sodium Salt				
Formula of Acid	Name of Acid	Formula	Name			
HCI	Hydrochloric acid	NaCl	Sodium chloride			
HCIO	Hypochlorous acid	NaClO	Sodium hypochlorite			
HClO ₂	Chlorous acid	NaClO ₂	Sodium chlorite			
HClO ₃	Chloric acid	NaClO ₃	Sodium chlorate			
HClO ₄	Perchloric acid	NaClO ₄	Sodium perchlorate			
H_2S	Hydrosulfuric acid	Na ₂ S	Sodium sulfide			
H ₂ SO ₃ ^a	Sulfurous acid	Na ₂ SO ₃	Sodium sulfite			
$H_2SO_4^a$	Sulfuric acid	Na_2SO_4	Sodium sulfate			
HNO ₂	Nitrous acid	NaNO ₂	Sodium nitrite			
HNO ₃	Nitric acid	NaNO ₃	Sodium nitrate			
H ₃ PO ₄ ^a	Phosphoric acid	Na ₃ PO ₄	Sodium phosphate			
H ₂ CO ₃ ^a	Carbonic acid	Na ₂ CO ₃	Sodium carbonate			

