

# QUIZ!!

(Don't Panic)

## Warm-Up Questions!

Write the formulas and the names of the compounds formed by the combination of the elements:

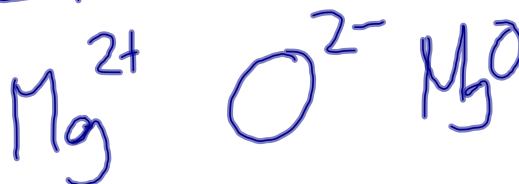
a) sodium and fluorine



b) calcium and chlorine



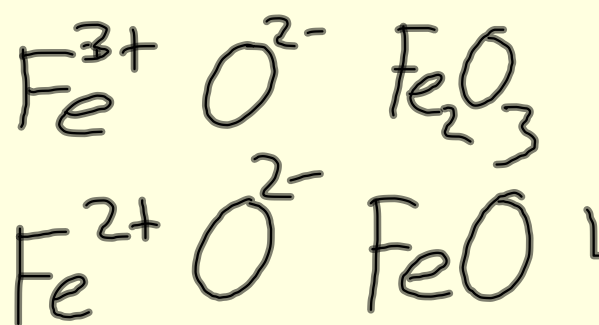
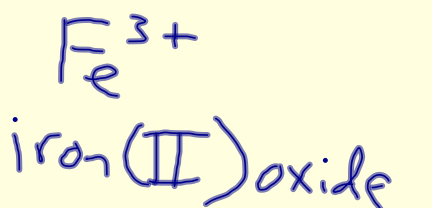
c) magnesium and oxygen



## Multivalent Metals

- some metals have more than one charge they are called **multi-valent ions**
- these elements are found in the middle block of the periodic table
- the charge that is to be used is indicated in brackets with a Roman numeral (Table 2 p. 195)

Ex. iron(III) oxide



IV

*Naming Ionic Compounds from Formula (multivalent ions):*

- Identify positive ion (metal) and negative ion (nonmetal)
- If metal is multivalent, determine its charge from the formula (balance total positives and negatives) and include in name

Ex. CuCl

Ex.  $\text{Fe}_3\text{N}_2$

# Periodic Table

Periodic Table of the Elements

Handwritten notes: 1+ 2+ (above IA, IIA); 31, 3-2-1-0 (above IIIA-VIIA); a blue circle around the transition metals (groups IIIB to IIB).

1	IA																IIA																IIIA																IVA																VA																VIA																VIIA																2																																																																																																																																																																															
1	H																He																																																																																																																																																																																																																																																																															
2	Li																Be																B																C																N																O																F																Ne																																																																																																																																																																															
3	Na																Mg																Al																Si																P																S																Cl																Ar																																																																																																																																																																															
4	K																Ca																Sc																Ti																V																Cr																Mn																Fe																Co																Ni																Cu																Zn																Ga																Ge																As																Se																Br																Kr															
5	Rb																Sr																Y																Zr																Nb																Mo																Tc																Ru																Rh																Pd																Ag																Cd																In																Sn																Sb																Te																I																Xe															
6	Cs																Ba																*La																Hf																Ta																W																Re																Os																Ir																Pt																Au																Hg																Tl																Pb																Bi																Po																At																Rn															
7	Fr																Ra																+Ac																Rf																Ha																Sg																Ns																Hs																Mt																110																111																112																113																																																																																															

* Lanthanide Series	58	59	60	61	62	63	64	65	66	67	68	69	70	71
	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
+ Actinide Series	90	91	92	93	94	95	96	97	98	99	100	101	102	103
	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

# Appreciations