


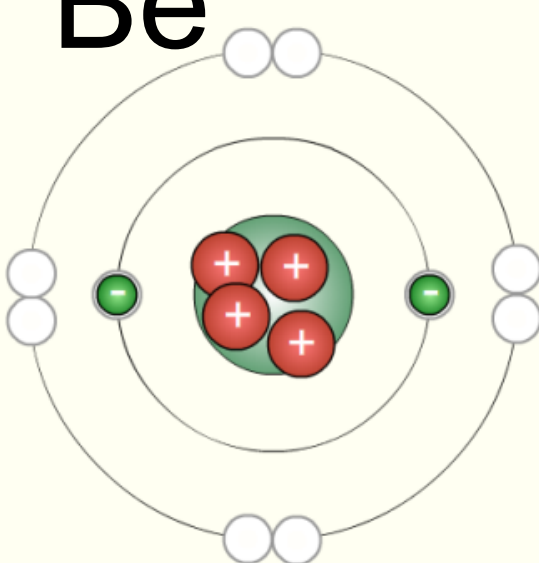
# Quiz Results

(Don't Panic)

# Ions



**Be<sup>2+</sup>**



Legend:

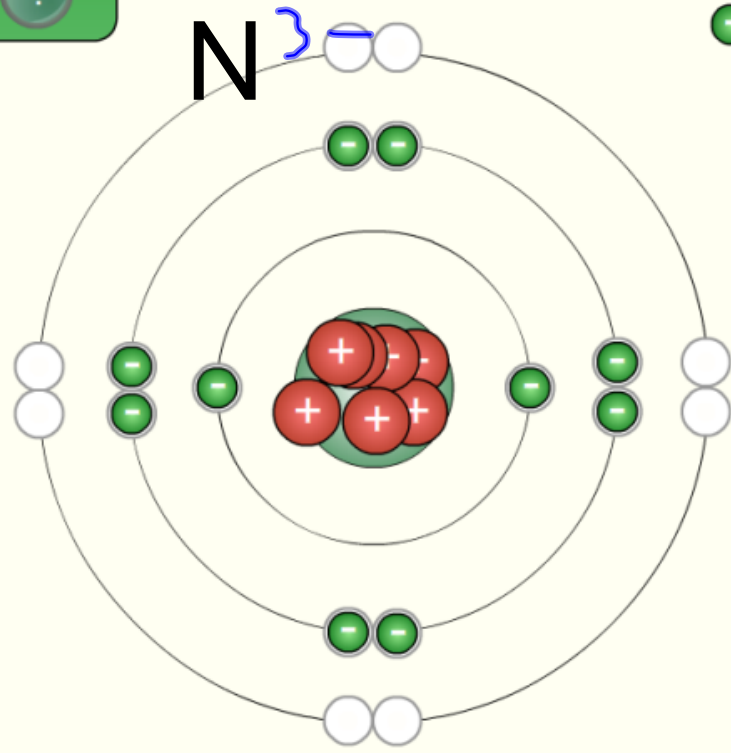
- Electron
- + Proton
- Neutron

Electrons =	2
Protons =	4
Neutrons =	0
Atomic mass =	4
Atomic No. =	4
Charge =	+2

Reveal next shell automatically when previous is filled.



N <sup>3-</sup>



- Electron
- Proton
- Neutron

Electrons = 10  
Protons = 7  
Neutrons = 0  
Atomic mass = 7  
Atomic No. = 7  
Charge = -3

Reset

Reveal next shell automatically when previous is filled.

# Polyatomic Compounds

many atoms

## Polyatomic Compounds

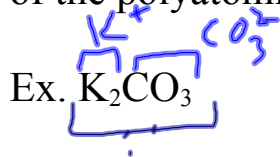
- **polyatomic ions** are groups of atoms that have a single charge  
Ex.  $\text{NO}_3^-$  (nitrate ion)
- Table 2, pg. 196
- they are to be balanced just like any other ion
- the name does not change to -ide

Ex. sodium + hydroxide = sodium hydroxide

Ex. magnesium + phosphate = magnesium phosphate

## *Naming Polyatomic Ions*

*Combination of the name of the metal, and the name of the polyatomic ion.*



1. Determine which ions make compound:



2. Name each ion:

Potassium Carbonate

**Write the chemical formula of the following ionic compounds:**

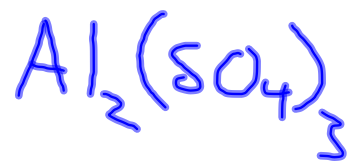
- (a) calcium sulfate  $\text{Ca}^{2+} \text{SO}_4^{2-} = \text{CaSO}_4$
- (b) sodium phosphate  $\text{Na}^+ \text{PO}_4^{3-} = \text{Na}_3\text{PO}_4$
- (c) aluminum carbonate  $\text{Al}^{3+} \text{CO}_3^{2-}$

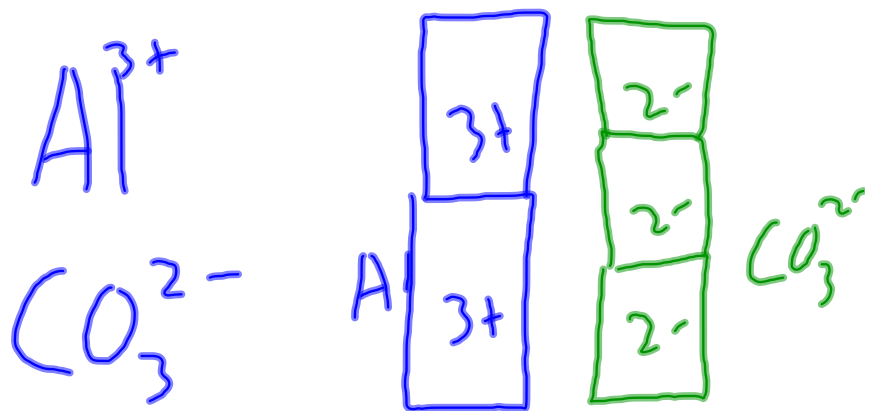
---

**Write the name of the following ionic compounds:**



Aluminum Sulfate





**Homework**  
**p.198 #1-4**  
**Quiz Friday**



# Appreciations

# Periodic Table

											Periodic Table of the Elements													
IA		IIA												IIIA	IVA	VA	VIA	VIIA	O					
1	H											5	B	6	C	7	N	8	O	9	F	10	He	
2	Li	Be											13	Al	14	Si	15	P	16	S	17	Cl	18	Ar
3	Na	Mg	IIIB	IVB	VB	VIB	VII B	VII			IB	IIB												
4	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36						
	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr						
5	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe						
6	55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86						
	Cs	Ba	*La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn						
7	87	88	89	104	105	106	107	108	109	110	111	112	113											
	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

