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Ionic Compounds

• Find the formula for an ionic compound made of Ba²⁺ and F-









Name	Ion	Name	Ion	
Hydroxide	OH-	Nitrate	NO3 ⁻	
Ammonium	$\mathrm{NH4}^{+}$	Nitrite	NO_2^-	
Acetate	CH3CO2-	Carbonate	CO32-	
Chromate	CrO4 ²⁻	Bicarbonate	HCO3 ⁻	
Dichromate	Cr2O72-	Sulfate	SO42-	
Phosphate	PO4 ³⁻	Sulfite	SO32-	
Hypochlorite	OC1-	Permanganate	MnO4-	
Cyanide	CN-	Oxalate	C2O42-	
Chlorate	C1O3-	Perchlorate	C1O4-	







Polyatomic ions

• What is the name for Al(NO₃)₃?

Aluminum nitrate







Ion	Name
Fe ²⁺	Iron (II)
Fe ³⁺	Iron (III)
Cu ⁺	Copper (I)
Cu ²⁺	Copper (II)
Sn ²⁺	Tin (II)
Sn4+	Tin (IV)
Hg ²⁺	Mercury (II)

















Naming Acids

- **Binary** acids (hydrogen + non-metal)
 - Add hydro to element root + -ic Acid HBr = hydrobromic acid

Polyatomic ion acids

Replace - ate with - ic OR - ite with -ous + acid

 H_3PO_4 = phosphoric acid

- Units of Measurements: SI units, interconversions
- Scientific Notation & Significant Figures
- Density
- Temperature Scales
- Elements, Compounds, Atoms
- Atomic symbols, atomic mass calculations
- Ions and Ionic Formulas, Names
- Acids and their names



Unit Conversion • the Hope diamond is the world's largest at 44.6 cats to carse a 200 mg, what is its weight is increased. • At a carst x 200 mg/carst = 828 mg • At a carst x 200 mg/carst = 820 mg • At a carst x 200 mg • At a

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Significant Figures

- Three students weigh a beaker:
 - 30.04 g

30.0 g

0.03003 kg

How many significant figures are in each value?

The average value?

Their Results:



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Atomic Symbols

• Write atomic symbols for the following descriptions:

atom with 15 protons and 16 neutrons

an isotope of that atom

Atomic Symbols

• Write atomic symbols for the following descriptions:

atom with 15 protons and 16 neutrons $^{31}_{15}P$

an isotope of that atom $^{29}_{15}P$

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