

INTERACTIVE CHEMISTRY

NAMING, NET IONIC EQUATIONS
AND REACTION PREDICTION



KAVITA GUPTA

• INTRODUCTION • WHERE TO START REACTION PREDICTION

To predict the products of a reaction and write the net ionic equations (reaction prediction), you will need to know the following:

- 1. Nomenclature- naming compounds (Chapter 1)*
- 2. How to write net ionic equations and Solubility Rules (Chapter 2)*
- 3. Types of Reactions (Chapter 3)*
- 4. Practice Problems (Chapter 4)*

We will go over each of the above, in the next few chapters.

Types of Inorganic Compounds

It is important to identify the type of a compound before naming it since naming varies with the type. For naming purposes, most inorganic compounds can be classified as ionic, molecular and acids.

• **Ionic Compounds** (generally solids) can be identified by the presence of a metal cation in it. Ex. NaCl, $\text{Ca}_3(\text{PO}_4)_2$

• **Molecular compounds** (generally liquids and gases) are made up of all non metals. Ex. PH_3 , N_2O_5

• **Acids** begin with H (generally present as aqueous solutions or gases) Ex. HCl, HNO_3 , HClO_4 , $\text{HC}_2\text{H}_3\text{O}_2$

CHAPTER 1 • IDENTIFYING COMPOUNDS FOR NAMING PURPOSES

Review 1.1 Identifying types of compounds

Question 1 of 3

Which of the following is an example of an ionic compound?

- A. H_2O_2
- B. NaClO
- C. P_2O_5

Click on the button below before moving to the next page.



Check Answer

Naming the Inorganic Compounds

Kavita Gupta

Naming Ionic Compounds

While naming the ionic compounds, **name the cation first, followed by the anion.**

-To **name the cation**, use the element name if the cation does not show variable valency.

-**For the variable valency cations**, in addition to the element name, add a roman numeral to indicate the charge, in the **stock way of naming**. Ex. Fe (II) or Fe (III). In the **old way of naming**, the lower to the two valencies has the ending -ous and the higher one has the ending -ic. **Ex. Ferrous (Fe²⁺), Ferric (Fe³⁺)**. Table #1 on the right, shows some of the variable valency cations.

-To **name the anion** identify the type of anion first.

-**Monoatomic anions** are named as their element with the ending -ide, and polyatomic anions are named as such. look at the table #2 on the right for the names of common polyatomic ions.

Ex. Fe₂O₃ (Iron (III) Oxide) or Ferric Oxide, MgO (Magnesium Oxide), (NH₄)₂SO₄ (Ammonium Sulfate) **Note: Prefixes are not used in naming the ionic Compounds.**

• CHAPTER 1: SECTION 2 • NAMING IONIC COMPOUNDS

Ionic compounds consist of a cation and an anion. The cation may show one valency (charge) such as Al³⁺ and Na⁺ (generally group 1, 2 or 13 metal cations) or show variable valency (generally transition metal cations). The anion can be monoatomic such as Cl⁻, S²⁻, P³⁻ or Polyatomic such as NO₃⁻ or SO₄²⁻. The rules for naming ionic compounds with single valency cation, variable valency cation and mono- and polyatomic anions are given on the left.

Table #1: Cations with Variable Valency

Copper	Cu	Cuprous, Cupric	Cu ⁺	Cu ²⁺
Cobalt	Co	Cobaltous, Cobaltic	Co ²⁺	Co ³⁺
Iron	Fe	Ferrous, Ferric	Fe ²⁺	Fe ³⁺
Lead	Pb	Plumbous, Plumbic	Pb ²⁺	Pb ⁴⁺
Mercury	Hg	Mercurous, Mercuric	Hg ₂ ²⁺	Hg ²⁺
Tin	Sn	Stannous, Stannic	Sn ²⁺	Sn ⁴⁺

Table #2: Polyatomic Ions

Ammonium	NH ₄ ⁺	Chlorate	ClO ₃ ⁻	Thiosulfate	S ₂ O ₃ ²⁻
Nitrate	NO ₃ ⁻	Perchlorate	ClO ₄ ⁻	Thiocyanate	SCN ⁻
Phosphate	PO ₄ ³⁻	Chlorite	ClO ₂ ⁻	Peroxide	O ₂ ²⁻
Hydroxide	OH ⁻	Hypochlorite	ClO ⁻	Sulfite	SO ₃ ²⁻
Sulfate	SO ₄ ²⁻	Permanganate	MnO ₄ ⁻	Nitrite	NO ₂ ⁻
Carbonate	CO ₃ ²⁻	Acetate	C ₂ H ₃ O ₂ ⁻ CH ₃ COO ⁻	Phosphite	PO ₃ ³⁻
Chromate	CrO ₄ ²⁻	Bicarbonate (hydrogen carbonate)	HCO ₃ ⁻	Bisulfate (hydrogen sulfate)	HSO ₄ ⁻
Dichromate	Cr ₂ O ₇ ²⁻	Cyanide	CN ⁻	Oxide	O ²⁻

Review 1.2 Naming Ionic Compounds

Question 1 of 3

What is the name of CaO?

- A. Calcium Monoxide
- B. Calcium Dioxide
- C. Calcium Oxide
- D. Mono calcium monoxide



Check Answer



Criss-Cross Method for Writing Formula of an Ionic Compound

-Criss cross method enables you to write the formula of an ionic compound given its name. writing the formula of an ionic compound is based upon the fact that ionic compounds are neutral. The positive and negative charges in an ionic compound must be equal.

-To Use criss-cross method: bring the numerical value of the charge of cation down as a subscript next to the anion and vice versa.

-Ex. Sodium Sulfide:



CHAPTER 1: SECTION 3 CONTINUED. • WRITING FORMULA FOR THE IONIC COMPOUNDS, NAMING HYDRATES AND COMPLEXES

Naming Hydrates: Hydrates are ionic compounds that have .H₂O in their formula, indicating physically attached water molecules to these compounds.



Click on the image for further information on naming the hydrates.

Naming Complexes: Complex: species in which a central metal ion (usually a transition metal) is bonded to a group of surrounding molecules or ions. Ex. [Cu(NH₃)₄]²⁺, Coordination compound: compound that contains a complex ion or ions. Ex. [Cu(NH₃)₄]Cl₂ (click on the icon below to see further details)



Click on the image for further details on naming the complexes.

CHAPTER 1, SECTIONS 1-3 REVIEW

Practice: Write the formula for the following ionic compounds on a separate sheet of paper and check your answers by scrolling down.

1. Magnesium Phosphide
2. Sodium Fluoride
3. Strontium Permanganate
4. Chromium (II) Phosphate

Online website for the review on naming ionic compounds

<http://www.quia.com/quiz/1240133.html>

Naming Molecular Compounds

1. **Stock Way** of naming molecular compounds: Write name of the **first element** followed by its **oxidation state** in parenthesis. **Example:** CO_2 can be named as Carbon (IV) Oxide or Carbon dioxide

Oxidation Numbers (ONs)

- ON is equal to the charge on a monoatomic ion. Ex. $\text{Mn}^{2+} = +2$, $\text{Cl}^- = -1$ etc.

- Sum of ONs of all elements is zero in a neutral compound. Ex. $\text{HNO}_3 = 0$

- **Exceptions:** H has ON of +1 (except in hydrides like NaH , where it is -1), O has ON of -2 except in peroxides (H_2O_2 or Na_2O_2), where it is -1

2. **Prefix Way:** Use Prefix (mono-, di-, tri- etc.) to indicate the number of atoms of each element. Mono not used before first element. Ex. CO is **CO is Carbon monoxide and not Monocarbon monoxide**

CHAPTER 1 • SECTION 4 • NAMING MOLECULAR COMPOUNDS

Molecular compounds can be named in two ways- Stock way or Prefix way. Guidelines for naming the molecular compounds are given on the left.

Review: Section 2 Naming Molecular Compounds

Question 1 of 3

What is the correct name of P_2O_5 ?

- A. Phosphorus (II) Oxide
- B. Phosphorus Oxide
- C. Phosphous pentoxide
- D. Diphosphorus pentoxide

Check Answer

Naming Acids

To name an acid without oxygen (Ex. HCl, HF etc.):

-Start with Hydro- followed by the name of anion ending in -ic Acid. Ex. HCl- Hydrochloric acid

To name an acid with Oxygen (Oxyacids, such as HClO, HNO₃ etc.):

-Anion ending decides the name of the acid. If anion ends in -ate, then acid is -ic acid, if anion ends in -ite, then acid is -ous acid.

Ex. HClO₄- Perchloric Acid (anion perchlorate)

HClO₃- Chloric Acid (anion Chlorate)

HNO₃- Nitric Acid

CHAPTER 1 • SECTION 5 • NAMING THE ACIDS

Acids are of two types:

-Acids that do not contain Oxygen. Ex. HCl, HBr, HF

-Acids that contain oxygen are called as oxyacids. Ex. H₃PO₄, HNO₃ etc.

-The guidelines for naming both types of acids are given on the left.

Review Section 3: Naming Acids

Question 1 of 4

What is the correct name of HNO₂?

- A. Nitrous Acid
- B. Hydro Nitrous Acid
- C. Nitric Acid
- D. None of the above

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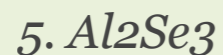
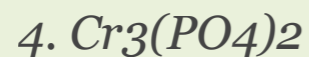
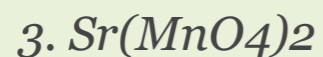
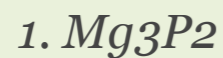


Check Answer

CHAPTER 1 REVIEW • NAMING COMPOUNDS

Cumulative Review for Naming Compounds

Directions: Write the formula or the name for the following compounds on a separate sheet of paper and check your answers by scrolling down.



8. *Ferrous Sulfate*

9. *Ammonium Carbonate*

10. *Copper(II) Chloride*

11. *Dinitrogen Monoxide*

12. *Sulfuric Acid*

CHAPTER 2: WRITING NET IONIC EQUATIONS

Net Ionic Equations

What are they?

Net ionic equations indicate the “net reaction” since the spectator ions are present in the solution unchanged before and after the reaction. Net ionic equations are written when all the spectator ions are crossed off from the complete ionic equations.

Click on the icon below for the list of Strong Acids and Strong Bases.



Click on the icon below for the list of common solubility rules for Ionic Compounds.



• CHAPTER 2 • UNDERSTANDING THE SOLUBILITY RULES

So what do these solubility rules mean and how do we apply them in the context of the net ionic equations? Let us explore these questions in detail with the podcast below.

Understanding the Solubility Rules and their role in writing the Net Ionic Equations

Kavita Gupta

• CHAPTER 2 CONTINUED • REVIEW ON THE SOLUBILITY RULES

Review for understanding of the solubility rules

On a separate sheet of paper, write the formula of the compounds that are insoluble (precipitates) in the aqueous solutions.

1. MgF_2
2. $CuSO_4$
3. NH_4Cl
4. $Fe(OH)_3$
5. CsF
6. $AgCl$
7. CdS
8. CuF_2
9. $PbSO_4$
10. $Ba(OH)_2$
11. NH_4OH
12. Hg_2I_2
13. Na_2CrO_4

Answers:

Click on
the button
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Steps in writing net ionic equations

Step 1: First you need to write the formula for each compound

Step 2: Figure out the products. (For this, you will need to know types of reactions which are discussed in next chapter.)

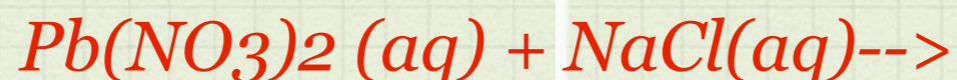
Step 3: Write balanced complete molecular equation.

Step 4: Dissociate what can be dissociated and write the complete ionic equation.

Step 5: Cancel the spectator ions and write the net ionic equation.

Step 1: First you need to write the formula for each reactant.

Ex: Lead (II) nitrate solution reacts with aq. sodium chloride.



Gallery 2.1 Important things to remember regarding Reaction Prediction

1. *Metal are insoluble and are atomic, written as (s) in these equations. Ex. Mg(s)*

Ex. Magnesium reacts with Chlorine.

Molecular Equation: $Mg (s) + Cl_2 (g) \rightarrow MgCl_2$

Complete Ionic: $Mg (s) + Cl_2 (g) \rightarrow Mg^{2+} + 2 Cl^-$

Net ionic: $Mg (s) + Cl_2 (g) \rightarrow Mg^{2+} + 2 Cl^-$

(same as complete ionic since no spectator ion is present)



CHAPTER 2 • SECTION 2 • PRACTICE ON WRITING THE NET IONIC EQUATIONS

On a separate sheet of paper, write the net ionic equations for the following reactions. (Scroll down to see the answers.)

1. Barium Chloride + Potassium Sulfate --> Barium Sulfate + Potassium Chloride

2. Zinc + Hydrochloric acid --> Zinc Chloride + Hydrogen

3. Silver Nitrate + Hydrogen Sulfide --> Silver Sulfide + Nitric Acid

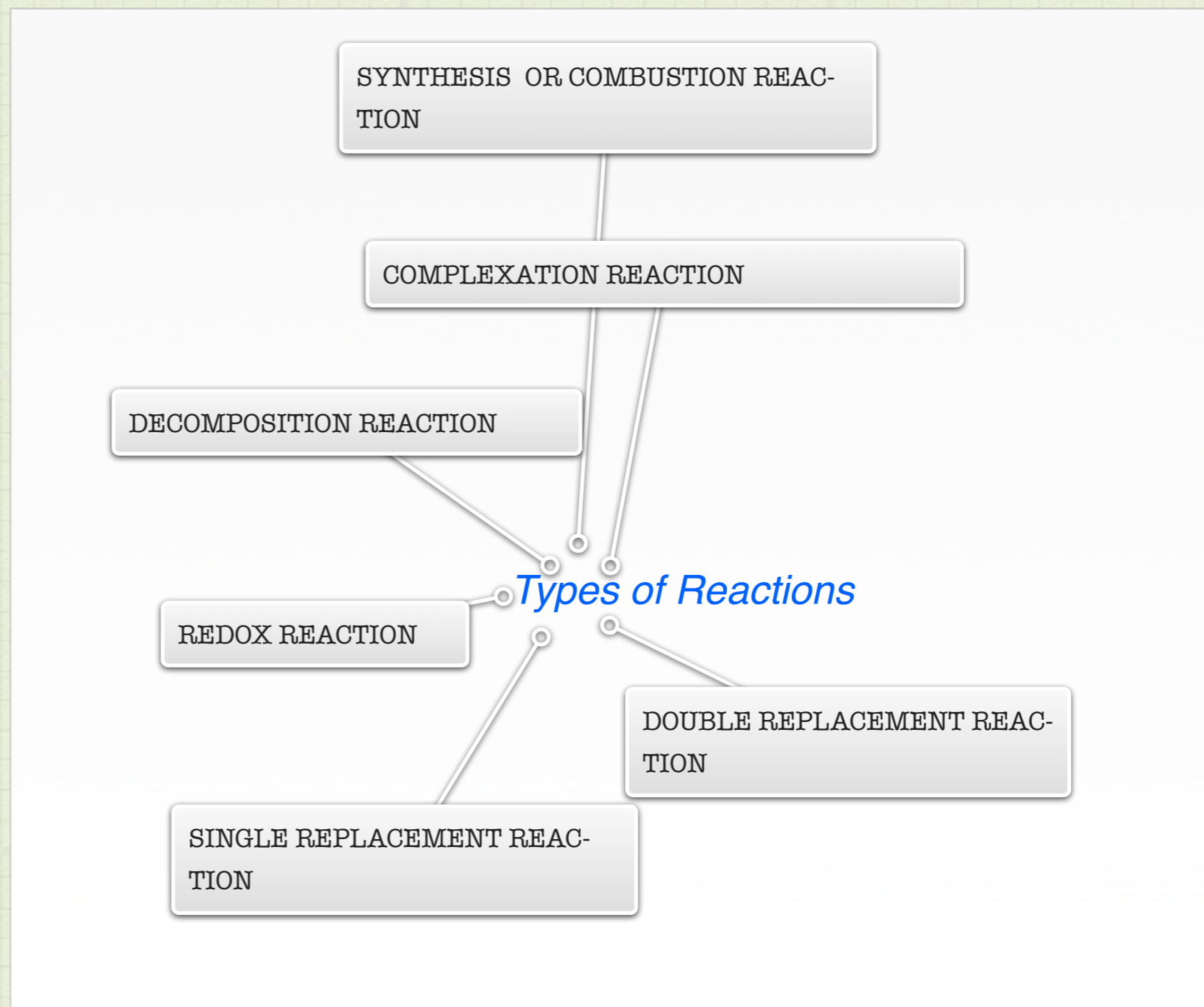
CHAPTER 3: TYPES OF REACTIONS

Types of Reactions

1. *Synthesis or Combination*
2. *Decomposition*
3. *Single Replacement*
4. *Double Replacement*
5. *Combustion (sometimes under synthesis)*
6. *Redox*
7. *Complexation*

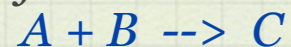
• CHAPTER 3 • TYPES OF REACTIONS

Interactive 3.1 Types of Reactions. [Click on each box for the details.](#)

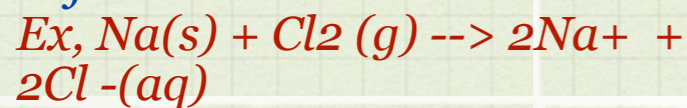


Synthesis or Combination Reactions

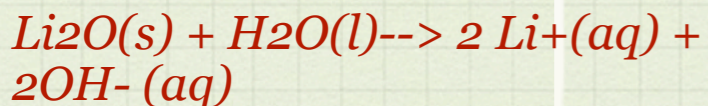
Combination Rxn (also called Synthesis): Single compound is formed



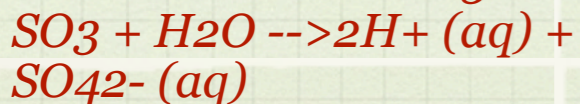
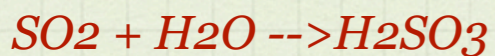
- *Metal combines with nonmetal to form salt.*



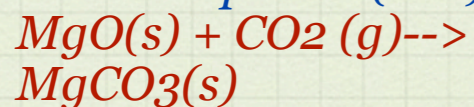
- *Metallic oxides (called basic anhydrides) and water form bases.*



- *Nonmetallic oxides (acid anhydrides) and water form acids.*



- *Metallic oxides and nonmetallic oxides form an ionic compound (salt).*



Credit: Wikispaces

Gallery 3.1 Practice on Synthesis Reactions

Predict the products and write the net ionic equations for the following Synthesis Reactions.

1. Calcium is heated in Nitrogen.
2. Sodium oxide is added to water.
3. Phosphorus (V) oxide is added to water.



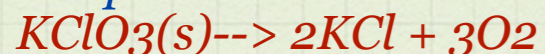
Decomposition Reactions

Decomposition Rxn: Single compound breaks down into 2 or more products; $A \rightarrow B + C$

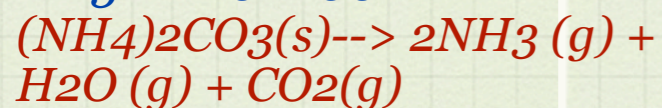
- *Metal Carbonates \rightarrow CO_2 + Oxide*



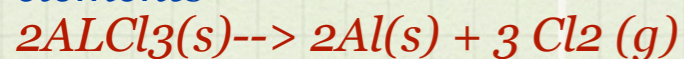
- *Metal Chlorates \rightarrow chloride compound + O_2*



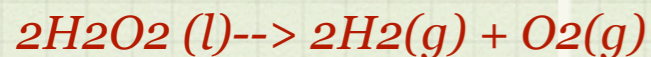
- *Ammonium carbonates \rightarrow NH_3 + H_2O + CO_2*



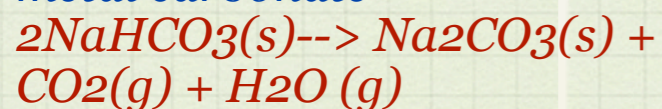
- *Binary compound \rightarrow Two elements*



- *Hydrogen peroxide \rightarrow H_2O + O_2*



- *Bicarbonates \rightarrow CO_2 + H_2O + metal carbonate*



CHAPTER 3 • SECTION 2 • DECOMPOSITION REACTIONS



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Gallery 3.2 Practice on Writing Decomposition Reactions

Predict the products and write the net ionic equations for the following decomposition reactions:

1. Ammonium carbonate is strongly heated.
2. Potassium Chlorate is strongly heated.
3. Sodium bicarbonate is strongly heated.



Combustion Reactions

- * Sometimes called as synthesis reactions.
- * One of the reactants is oxygen.
- * *Ex. $X + O_2 \rightarrow XO_2$*
- * Metal and nonmetals form oxides as the result of combustion reactions.
Ex: $Mg(s) + O_2(g) \rightarrow 2MgO(s)$
- * Hydrocarbons form CO_2 and H_2O gases as the result of combustion.
 $CH_4(g) + 2O_2(g) \rightarrow CO_2(g) + 2H_2O(g)$
- * Incomplete combustion of a hydrocarbon results in the formation of CO and H_2O gases



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Gallery 3.3 Practice on Combustion Reactions

Predict the products and write the balanced net ionic equations for the following combustion reactions.

1. Calcium metal burns in the air.
2. Hydrogen gas is burned in air.
3. Glucose ($C_6H_{12}O_6$) is burned in air

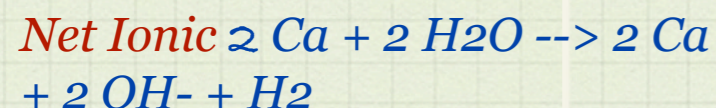
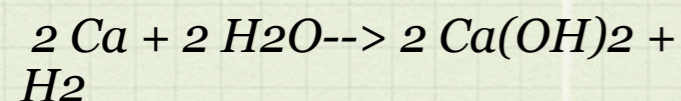
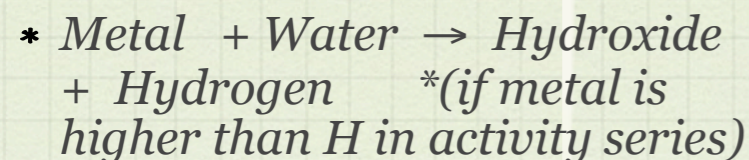
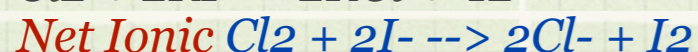
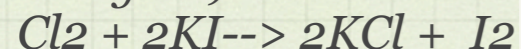
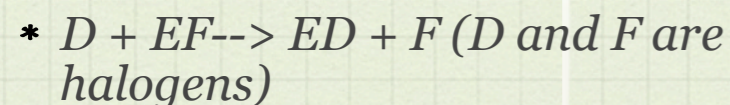
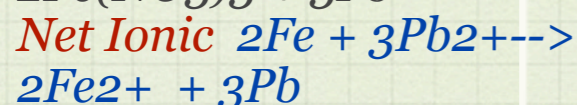
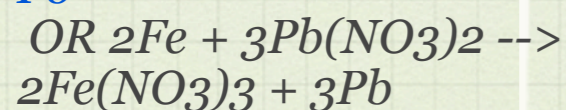
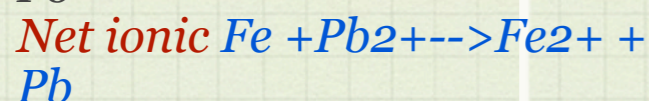
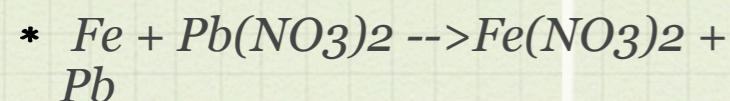


Single Replacement Reactions

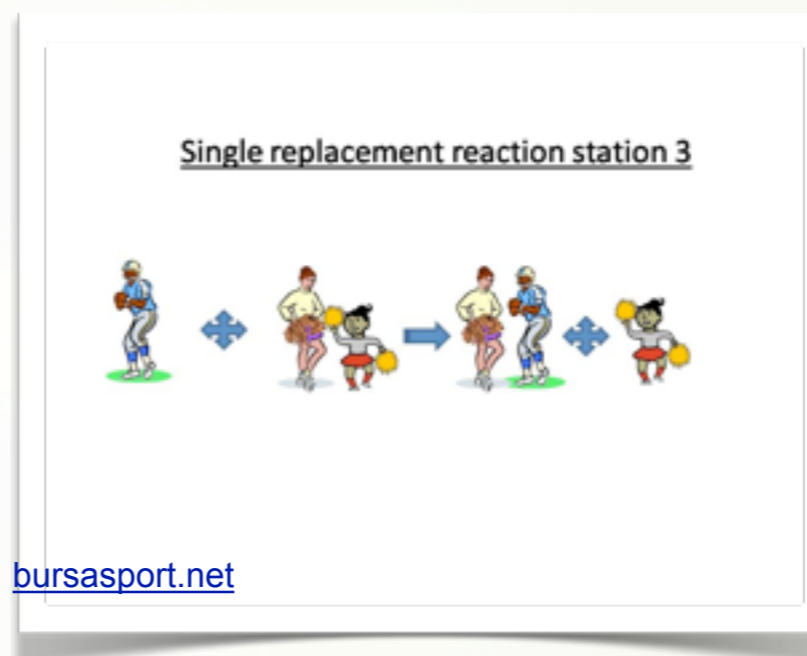
Single replacement reactions are always between an element and a compound. The products are also an element and a compound.

Driving force: Element with higher order of reactivity or activity series.

Ex. $A + BC \rightarrow AC + B$ (A and B are metals)



CHAPTER 3 • SECTION 4 • SINGLE REPLACEMENT



Gallery 3.4 Practice on Single Replacement Reactions

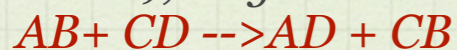
Predict the products and write balanced, net ionic equations for the following single replacement reactions.

1. Solid calcium is added to hydrobromic acid solution.
2. Calcium metal is added to water.
3. Solid copper is added to a solution of silver nitrate.



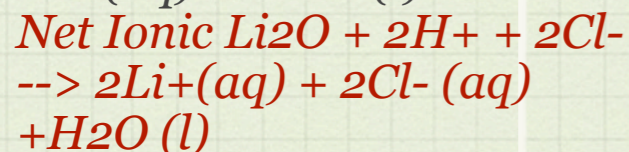
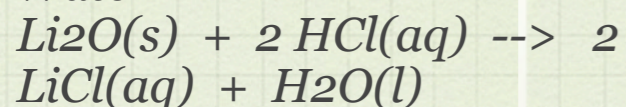
Double Replacement Reactions

- * exchange of positive ions between 2 reacting compounds. *Driving force* is formation of solid (precipitate), liquid (molecular compound like water), or gas.

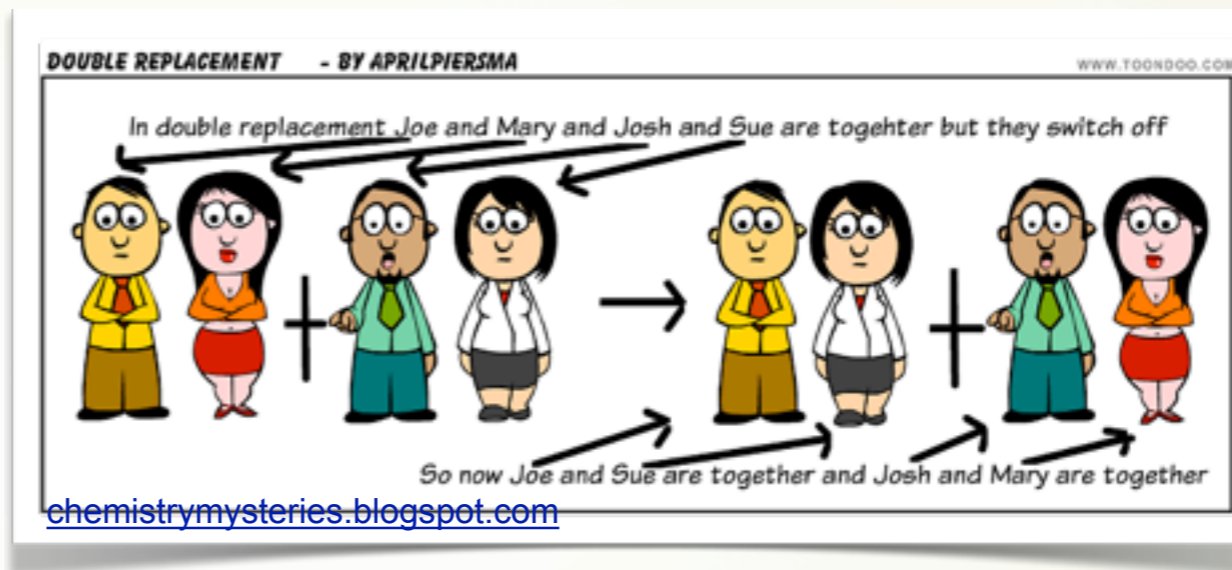
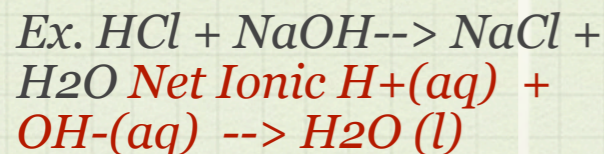


- * Ex. $K_2CO_3(aq) + BaCl_2(aq) \rightarrow 2KCl(aq) + BaCO_3(s)$
Net Ionic $Ba^{2+}(aq) + CO_3^{2-}(aq) \rightarrow BaCO_3(s)$

- * Metal Oxide + Acid \rightarrow Salt + Water



- * Acid + Base \rightarrow Salt + Water



Gallery 3.5 Practice on Double Replacement Reactions

Predict the products and write the balanced, net ionic equations for the following double replacement reactions.

1. A solution of lead nitrate is mixed with potassium sulfate.
2. Equal volumes of 0.1 M sodium phosphate is added to hydrochloric acid.
3. Ammonia reacts with acetic acid solution.
4. Hydrogen sulfide gas is bubbled through a solution of lead(II) nitrate.
5. Solutions of silver nitrate and sodium chromate are mixed.

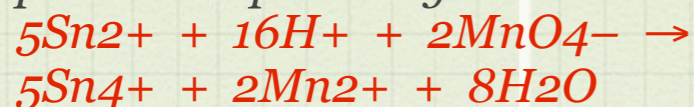


Redox Reactions

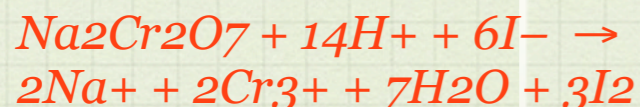
Involve transfer of the electrons (involves change in Oxidation number of the elements)

* Most reactions involving permanganate, dichromate, or chromate are redox reactions.

* “A solution of tin(II) chloride is added to an acidified solution of potassium permanganate.”



* “Solid sodium dichromate is added to an acidified solution of sodium iodide.”



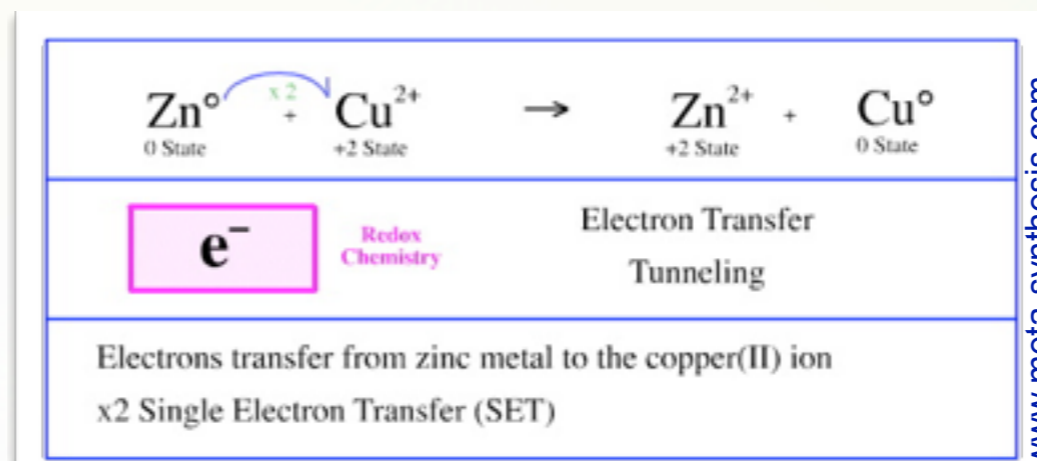
* MnO_4^{-} in acidic solution
 Mn^{2+}

MnO_2 in acidic solution
 Mn^{2+}

MnO_4^{-} in neutral or basic solution
 MnO_2

$\text{Cr}_2\text{O}_7^{2-}$ in acidic solution
 Cr^{3+}

HNO_3 concentrated -- NO_2
 H_2O_2 -- $\text{O}_2, \text{H}_2\text{O}$



Gallery 3.6 Balancing Redox Reactions

Tap on the frame below for the full screen view.

Balancing Redox (Oxidation-reduction) reactions

“Redox”: rxns with a change in oxidation number

- At least one element’s oxidation number will increase and one will decrease

- Consists of two **half-reactions**:

oxidation: loss of e-; oxidation number increases

reduction: gain of e-; oxidation number decreases (“reduces”)

Practice Problems on Redox

Scroll down for the answers.

1. A solution of tin(II) chloride is added to an acidified solution of potassium permanganate.”

2. Solid sodium dichromate is added to an acidified solution of sodium iodide.

Complexation Reactions

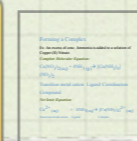
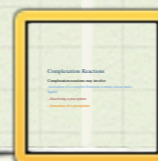
1. involve a coordination compound. A coordination compound has complex ion in it.
2. Complex ion has a transition metal cation and ligands (small molecules or anions, such as NH_3 , Cl^- , H_2O etc.) attached to the metal cation.
3. Ex. of complex ions
 $[\text{Cu}(\text{NH}_3)_4]^{2+}$, $\text{Na}(\text{OH})_4^-$
4. Complexation reactions may involve formation of a complex, dissolving a precipitate or formation of a precipitate.
5. When forming complex ions, you will often add double the number of ligands than the oxidation state of the metal.

Gallery 3.7 Complexation Reactions

Complexation Reactions

Complexation reactions may involve:

- formation of a complex between a metal cation and a ligand
- dissolving a precipitate
- formation of a precipitate



CHAPTER 4: PRACTICE ON REACTION PREDICTION

• CHAPTER 4 • PRACTICE ON REACTION PREDICTION

Movie 4.1 Podcast on Reaction Prediction Practice

The screenshot shows a Microsoft Word 2012 window in Compatibility Mode. The document content is as follows:

Directions on the AP test for Reaction Prediction:

"For each of the following three reactions, in part (i) write a balanced equation and in part (ii) answer the question about the reaction. In part (i), coefficients should be in terms of lowest whole numbers. Assume that solutions are aqueous unless otherwise indicated. Represent substances in solutions as ions if the substances are extensively ionized. Omit formulas for any ions or molecules that are unchanged by the reaction."

Types of Reactions:

I. Combination Rxn (also called Synthesis): Single compound is formed; $A + B \rightarrow C$

Examples:

1. Metal + Nonmetal \rightarrow Ionic Compound
e.g. $\text{Na(s)} + \text{Cl}_2(\text{g}) \rightarrow 2\text{NaCl}(\text{aq})$
2. Nonmetal + Nonmetal \rightarrow Molecular Compound
e.g. $\text{S} + \text{O}_2 \rightarrow \text{SO}_2$
 $2\text{S} + 3\text{O}_2 \rightarrow 2\text{SO}_3$
3. Special Case: $2\text{SO}_2 + \text{O}_2 \rightarrow 2\text{SO}_3$
4. Metal Oxide + Water \rightarrow Metal Hydroxide
e.g. $\text{Li}_2\text{O} + \text{H}_2\text{O} \rightarrow 2\text{LiOH}$

The document is displayed in a window titled "RP 2012 [Compatibility Mode] - Microsoft Word". The status bar at the bottom indicates "Page: 1 of 6" and "Words: 1,593". A taskbar at the bottom shows various application icons and the system clock displaying "8:52 AM 6/4/2012".

COMPREHENSIVE REVIEW • REACTION PREDICTION

Review 4.1 Review for the Reaction Prediction

Question 1 of 3

What are the products formed upon decomposition of carbonic acid?

- A. H_2CO_3
- B. $\text{H}_2 + \text{CO}_2$
- C. $\text{H}^+ + \text{HCO}_3^-$
- D. $\text{H}_2\text{O} + \text{CO}_2$

Click on
the button
below be-
fore mov-
ing to the
next page.



Check Answer



MORE REVIEW PROBLEMS • REACTION PREDICTION

Practice on Reaction Prediction and net ionic equations

*For each of the reactions below, write the following on a separate sheet of paper.
Scroll down for the answers.*

-type of reaction

-balanced complete molecular equation

-complete ionic equation

-net ionic equation

- 1. Solid zinc sulfide reacts with aq hydrochloric acid.*
- 2. Phosphorus (V) Oxide is mixed with water.*
- 3. Solutions of silver nitrate and sodium chromate are mixed.*
- 4. Butane is burned in air.*
- 5. Concentrated ammonia is bubbled through the solution of cupric nitrate.*

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Acids: Compounds that act as proton donors, the formula of acids generally begins with H (3)

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Related Glossary Terms

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Cation: Positively charged atom, formed when an atom loses one or more electrons (2.1)

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Complexes: Ions that have a transition metal cation bonded to ligands (small neutral molecules or anions)
(2.1)

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Ionic Compounds: Made up of a cation and anion, generally present as solids (2.1)

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Molecular Compounds: Made up of all non metals, generally present as gases or liquids(2.2)

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Net Ionic Equations: Shows what happens in a reaction after crossing out spectator ions(3)

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Nomenclature: Naming of compounds(2)

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Related Glossary Terms

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Solubility Rules: Set of rules predicting what ionic compounds will break up into ions when dissolved in water(2.1)

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Strong Acids: Acids that completely dissociate into ions(3)

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Weak Acids: Only partly dissociate(3)

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