

# Ch 14 Acids And Bases Practice Problems

1 Chapter 14 - Acids and Bases 14.1 The Nature of Acids and Bases  
A. Arrhenius Model 1. Acids produce hydrogen ions in aqueous solutions 2. Bases produce hydroxide ions in aqueous solutions B. Bronsted-Lowry Model 1. Acids are proton donors 2. Bases are proton acceptors 3.  $\text{H}_3\text{O}^+$  is called the hydronium ion C. Conjugate Acid-Base Pairs 1. A conjugate base is what remains after an acid has ...

~~Chapter 14: Acids and Bases Flashcards | Quizlet~~

View Chapter\_14\_-\_Acids\_and\_Bases.ppt from CHE 101 at University of Poonch, Rawalakot. Acids and Bases Topics to be

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covered: • Definitions of acids and bases; • Bronsted ' s  
conjugate acid-base

~~CHAPTER 14 ACIDS AND BASES - Philadelphia University~~

~~Chapter 14 (Acids and Bases) - Part 1~~

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~~Chapter 14 - Acids and Bases~~Chapter 14 (Acids and Bases) - Part 2

~~ch 14 acids and bases part 1~~ Chapter 14 (Acids and Bases) - Part 4

~~CH 14 Acids and Bases Lesson 1~~ Chapter 14 (Acids and Bases) -  
Part 3 Ch 14 Acids and Bases

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~~ch 14 acids and bases part 2~~

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AP Video 1 Part 2 Chapter 14 Acids and Bases IntroChapter 14  
(Acids and Bases) - Part 5

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Acids and Bases Chemistry - Basic IntroductionAcids + Bases Made  
Easy! Part 1 - What the Heck is an Acid or Base? - Organic  
Chemistry

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Chapter 14! Newton's Laws of Motion ~~How to Write Exam for Good Marks~~ Newton's First Law of Motion Naming Acids  
Introduction Acids and Bases, pH and pOH Acid-Base Equilibria  
and Buffer Solutions ~~Chapter 16 — Acid-Base Equilibria: Part 1 of 18 Exponents~~

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Chapter 14 Acid and Bases Video 2 of 3

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ch 14 acids and bases part 3 ~~Acids Bases and Salts~~ Chapter #14  
Acids and Bases Lecture #1 Part #1 APC Ch 14 15 Acids and Bases  
Lesson 5 Indicators and Titration 1 Hatchet Chapter 14

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Chapter 26 Fluid, Electrolyte, Acid-Base Balance Chapter 16 (Acid-Base Equilibria) - Part 1 ~~Ch 14 Acids And Bases~~

Chapter 14: Acids and Bases; 14.1: Sour Patch Kids and International Spy Movies; 14.2: Acids: Properties and Examples; 14.3: Bases: Properties and Examples; 14.4: Molecular Definitions

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of Acids and Bases; 14.5: Reactions of Acids and Bases; 14.6: Acid – Base Titration: A Way to Quantify the Amount of Acid or Base in a Solution; 14.7: Strong and ...

#### ~~14: Acids and Bases – Chemistry LibreTexts~~

chapters 14 and 15 acids and bases Acids and Bases are substances that either have  $H^+$  (acids) or  $OH^-$  (bases) when dissolved in  $H_2O$ . Properties of acids include a sour taste, creating hydrogen gas with active metals, turn blue litmus paper red, strong acids combine with strong bases to make water and a salt, and have a charge.

#### ~~Ch. 14/ 15 Acids and Bases~~

14.1 The nature of acids and base 1. Arrhenius Definition. Acids produce hydrogen ions in aqueous solution. Bases produce

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hydroxide ions when dissolved in water. The definition is limited to aqueous solutions. Only one kind of bases is identified. Ammonia,  $\text{NH}_3$ , could not be an Arrhenius base.

## ~~CHAPTER 14 ACIDS AND BASES – Philadelphia University~~

### ~~1 Chapter 14 - Acids and Bases 14.1 The Nature of Acids and Bases~~

~~A. Arrhenius Model 1. Acids produce hydrogen ions in aqueous solutions 2. Bases produce hydroxide ions in aqueous solutions~~

~~B. Bronsted-Lowry Model 1. Acids are proton donors 2. Bases are proton acceptors 3.  $\text{H}_3\text{O}^+$  is called the hydronium ion~~

~~C. Conjugate Acid-Base Pairs 1. A conjugate base is what remains after an acid has ...~~

~~chap14notes.pdf – Chapter 14 Acids and Bases 14.1 The ...~~

~~Page 5/39~~

Chemistry 12 Ch 4 : 1Acids and Base s Page | 1 Chapter 14: Acids and Bases Check MasteringChemistry Deadlines . Acids and Bases: The sour taste of lemons and lime, the bite of sourdough bread, and the tang of a tomato are all caused by acids. Citric acid, acetic acid, and tartaric acid are examples.

### ~~Chapter 14: Acids and Bases~~

School Chapter 14 Review / Acids and Bases Two pages take chemistry learners on a survey of acids and bases. High schoolers write formulas and name compounds. They identify conjugate bases and acids with the aid of a table (not provided). Chapter 14 Review / Acids and Bases Worksheet for 9th - 12th ... Acids and Bases: Chapter 14 & 15 .

## ~~Chapter 14 Acids Bases Worksheet – Kora~~

View Chapter\_14\_-\_Acids\_and\_Bases.ppt from CHE 101 at University of Poonch, Rawalakot. Acids and Bases Topics to be covered:

- Definitions of acids and bases;
- Bronsted 's conjugate acid-base

## ~~Chapter\_14\_-\_Acids\_and\_Bases.ppt – Acids and Bases Topics ...~~

Start studying Ch. 14: Acids and Bases. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

## ~~Ch. 14: Acids and Bases Flashcards | Quizlet~~

IB Chemistry HL: Unit 14: Acids & Bases ANSWERS 4/10 Short Answers 1) (a) In the reaction  $2\text{H}_2\text{O}(l) \rightleftharpoons \text{H}_3\text{O}^+(\text{aq}) + \text{OH}^-(\text{aq})$  use the Bronsted-Lowry Theory to discuss the acidic and/or basic

Page 7/39

nature of water. [2]  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ -Water can donate a proton (BL acid) or receive a proton (BL base)

### ~~ANSWERS Unit 14: Review Acids and Bases~~

Chapter 14 – Acids and Bases Textbook Reference Study Guide. 14-1; 14-2; 14-3; Mixed Review; Section 1 – Properties of Acids and Bases. This section describes acids and bases, defines Arrhenius acid and bases, introduces acid-base nomenclature, and characterizes strong and weak acids and bases. Study Guide 14-1. Diagrams. Common Aqueous Acids and Bases

### ~~Ch. 14 – Acids and Bases – ABC Science~~

Acids and bases have a wide variety of uses and can react together in neutralisation reactions. ... Most common pH values occur

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between 0 and 14. Acids have a pH of less than 7.

~~The pH scale - Acids and bases - National 4 Chemistry ...~~

Major topics: Arrhenius vs. Bronsted-Lowry definition of acids and bases, conjugate acid/base, acid dissociation constant ( $K_a$ ), & strong vs weak acids

~~Chapter 14 (Acids and Bases) - Part 1 - YouTube~~

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~~CH.14 - Acids and Bases Flashcards | Quizlet~~

CHAPTER 14 ACIDS AND BASES Questions 19. Acids are proton ( $H^+$ ) donors, and bases are proton acceptors.  $HCO_3^-$  as an

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acid:  $\text{HCO}_3^- (\text{aq}) + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{CO}_3^{2-} (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$   
 $\text{HCO}_3^-$  as a base:  $\text{HCO}_3^- (\text{aq}) + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{H}_2\text{CO}_3 (\text{aq}) + \text{OH}^- (\text{aq})$   
 $\text{H}_2\text{PO}_4^-$  as an acid:  $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{HPO}_4^{2-} (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$   
 $\text{H}_2\text{PO}_4^-$  as a base:  $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{H}_3\text{PO}_4 (\text{aq}) + \text{OH}^-$

~~CHAPTER 14 ACIDS AND BASES~~ [learning.hccs.edu](http://learning.hccs.edu)

Start studying Chapter 14: Acids and Bases. Learn vocabulary, terms, and more with flashcards, games, and other study tools.  
 Scheduled maintenance: Saturday, October 10 from 4 – 5 PM PT.  
 On Saturday, October 10th, we'll be doing some maintenance on Quizlet to keep things running smoothly. Quizlet will be unavailable from 4-5 PM PT.

## ~~Chapter 14: Acids and Bases Flashcards | Quizlet~~

The acid and base have neutralized each other, and the acidic and basic properties are no longer present. Salt solutions do not always have a pH of 7, however. Through a process known as hydrolysis, the ions produced when an acid and base combine may react with the water molecules to produce a solution that is slightly acidic or basic. We will not go into details here, but generally if a strong acid is mixed with a weak base there the resulting solution will be slightly acidic; if a strong ...

## ~~14.5: Reactions of Acids and Bases — Chemistry LibreTexts~~

Learn ch 14 15 chemistry acids bases with free interactive flashcards. Choose from 500 different sets of ch 14 15 chemistry acids bases flashcards on Quizlet.

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~~ch 14 15 chemistry acids bases Flashcards and Study Sets ...~~

REMEMBER strong acids and bases! This is VERY helpful on the AP Chemistry exam :D Strong Acids  $\text{H}_3\text{O}^+$  (Only a few compounds like  $\text{H}_3\text{OCl}$  and  $\text{H}_3\text{ONO}_3$  are known to contain hydronium ions.)  $\text{HCl}$ ,  $\text{HBr}$ ,  $\text{HClO}_4$ ,  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{HClO}_3$   
Strong Bases

Chemistry 12 Ch 4 : 1Acids and Base s Page | 1 Chapter 14:  
Acids and Bases Check MasteringChemistry Deadlines .  
Acids and Bases: The sour taste of lemons and lime, the bite of sourdough bread, and the tang of a tomato are all caused

by acids. Citric acid, acetic acid, and tartaric acid are examples.

School Chapter 14 Review/Acids and Bases Two pages take chemistry learners on a survey of acids and bases. High schoolers write formulas and name compounds. They identify conjugate bases and acids with the aid of a table (not provided). Chapter 14 Review/Acids and Bases Worksheet for 9th - 12th ... Acids and Bases: Chapter 14 & 15 .

IB Chemistry HL: Unit 14: Acids & Bases ANSWERS 4/10  
Short Answers 1) (a) In the reaction  $2\text{H}_2\text{O}(l) \rightleftharpoons \text{H}_3\text{O}^+(\text{aq}) + \text{OH}^-(\text{aq})$  use the Bronsted-Lowry Theory to discuss the acidic and/or basic nature of water. [2]  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$

$3O + + OH$ -Water can donate a proton (BL acid) or receive a proton (BL base)

## ~~ANSWERS Unit 14: Review Acids and Bases~~

~~CH.14 Acids and Bases Flashcards | Quizlet~~

~~Ch. 14/ 15 Acids and Bases~~

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~~14.5: Reactions of Acids and Bases~~  
~~Chemistry LibreTexts~~

~~CHAPTER 14 ACIDS AND BASES~~—[learning.hccs.edu](http://learning.hccs.edu)

Chapter 14 – Acids and Bases Textbook Reference Study

Guide. 14-1; 14-2; 14-3; Mixed Review; Section 1 –

Properties of Acids and Bases. This section describes acids and bases, defines Arrhenius acid and bases, introduces acid-base nomenclature, and characterizes strong and weak acids and bases. Study Guide 14-1. Diagrams. Common Aqueous Acids and Bases

*Chapter 14 (Acids and Bases) - Part 1*

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Chapter 14 - Acids and Bases *Chapter 14 (Acids and Bases) - Part 2*  
~~ch 14 acids and bases part 1~~ Chapter 14 (Acids and Bases) - Part 4  
~~CH 14 Acids and Bases Lesson 1~~ **Chapter 14 (Acids and Bases) - Part 3**  
**Ch 14 Acids and Bases**

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ch 14 acids and bases part 2

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AP Video 1 Part 2 Chapter 14 Acids and Bases Intro *Chapter 14 (Acids and Bases) - Part 5*

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Acids and Bases Chemistry - Basic Introduction *Acids + Bases Made Easy! Part 1 - What the Heck is an Acid or Base? - Organic Chemistry*

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Chapter 14! Newton's Laws of Motion ~~How to Write Exam for Good Marks~~ *Newton's First Law of Motion Naming Acids Introduction*  
Acids and Bases, pH and pOH Acid-Base Equilibria and Buffer Solutions ~~Chapter 16 - Acid-Base~~

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Equilibria: Part 1 of 18 Exponents

Chapter 14 Acid and Bases Video 2 of 3

~~ch 14 acids and bases part 3 Acids Bases and Salts~~

**Chapter#14 Acids and Bases Lecture#1 Part#1 APC Ch 14**  
*15 Acids and Bases Lesson 5 Indicators and Titration 1*  
*Hatchet Chapter 14*

Chapter 26 Fluid, Electrolyte, Acid-Base Balance**Chapter 16**  
**(Acid-Base Equilibria) - Part 1** ~~Ch 14 Acids And Bases~~

CHAPTER 14 ACIDS AND BASES Questions 19. Acids are proton (H<sup>+</sup>) donors, and bases are proton acceptors. HCO<sub>3</sub><sup>-</sup> as an acid:  $\text{HCO}_3^- (\text{aq}) + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{CO}_3^{2-} (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$   
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H<sub>2</sub>PO<sub>4</sub><sup>-</sup> as an acid:  $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{HPO}_4^{2-} (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$   
H<sub>2</sub>PO<sub>4</sub><sup>-</sup> as a base:  $\text{H}_2\text{PO}_4^- + \text{H}_2\text{O} (\text{l}) \rightleftharpoons \text{H}_3\text{PO}_4 (\text{aq}) + \text{OH}^- (\text{aq})$

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2 O(l) ? H<sub>3</sub>PO<sub>4</sub> (aq) + OH

~~chap14notes.pdf – Chapter 14 Acids and Bases  
14.1 The ...~~

~~Ch. 14: Acids and Bases Flashcards | Quizlet~~  
14.1 The nature of acids and base 1. Arrhenius Definition. Acids produce hydrogen ions in aqueous solution. Bases produce hydroxide ions when dissolved in water. The definition is limited to aqueous solutions. Only one kind of bases is identified. Ammonia, NH<sub>3</sub>. 3. could not

be an Arrhenius base.

~~Ch. 14 — Acids and Bases — ABC Science~~

Start studying CH.14- Acids and Bases. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

~~Chapter\_14\_\_Acids\_and\_Bases.ppt — Acids and Bases Topics ...~~

Acids and bases have a wide variety of uses and can react together in neutralisation reactions. ... Most common pH values occur

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between 0 and 14. Acids have a pH of less than 7.

Chapter 14: Acids and Bases; 14.1: Sour Patch Kids and International Spy Movies; 14.2: Acids: Properties and Examples; 14.3: Bases: Properties and Examples; 14.4: Molecular Definitions of Acids and Bases; 14.5: Reactions of Acids and Bases; 14.6: Acid – Base Titration: A Way to Quantify the Amount of Acid or Base in a Solution; 14.7: Strong and ...

REMEMBER strong acids and bases! This is VERY helpful on the AP Chemistry exam :D Strong Acids  
 $\text{H}_3\text{O}^+$  (Only a few compounds like  $\text{H}_3\text{OCl}$  and  $\text{H}_3\text{ONO}_3$  are known to contain hydronium ions.)  
 $\text{HCl}$ ,  $\text{HBr}$ ,  $\text{HClO}_4$   $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{HClO}_3$  Strong Bases

Major topics: Arrhenius vs. Bronsted-Lowry definition of acids and bases, conjugate acid/base, acid dissociation constant ( $K_a$ ), & strong vs weak acids

chapters 14 and 15 acids and bases Acids and Bases are substances that either have  $\text{H}^+$  (acids)

or OH<sup>-</sup> (bases) when dissolved in H<sub>2</sub>O. Properties of acids include a sour taste, creating hydrogen gas with active metals, turn blue litmus paper red, strong acids combine with strong bases to make water and a salt, and have a charge.

Chapter 14 (Acids and Bases) - Part 1

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Chapter 14 - Acids and Bases  
Chapter 14 (Acids and Bases) - Part 2 ~~ch 14 acids and bases part 1~~

Chapter 14 (Acids and Bases) - Part 4 ~~CH 14~~

~~Acids and Bases Lesson 1~~ Chapter 14 (Acids and Bases) - Part 3 Ch 14 Acids and Bases

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ch 14 acids and bases part 2

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AP Video 1 Part 2 Chapter 14 Acids and Bases  
IntroChapter 14 (Acids and Bases) - Part 5

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Acids and Bases Chemistry - Basic Introduction  
Acids + Bases Made Easy! Part 1 - What the Heck  
is an Acid or Base? - Organic Chemistry

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Chapter 14! Newton's Laws of Motion ~~How to~~  
~~Write Exam for Good Marks~~ Newton's First Law of  
Motion Naming Acids Introduction Acids and  
Bases, pH and pOH Acid-Base Equilibria and Buffer  
Solutions Chapter 16 — Acid-Base Equilibria: Part 1  
of 18 Exponents

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Chapter 14 Acid and Bases Video 2 of 3

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ch 14 acids and bases part 3 ~~Acids Bases and Salts~~

Chapter #14 Acids and Bases Lecture #1 Part #1

APC Ch 14 15 Acids and Bases Lesson 5

Indicators and Titration 1 Hachet Chapter 14

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Chapter 26 Fluid, Electrolyte, Acid-Base Balance

Chapter 16 (Acid-Base Equilibria) - Part 1 ~~Ch 14~~

~~Acids And Bases~~

Chapter 14: Acids and Bases; 14.1: Sour Patch

Kids and International Spy Movies; 14.2: Acids:

Properties and Examples; 14.3: Bases: Properties

and Examples; 14.4: Molecular Definitions of Acids

and Bases; 14.5: Reactions of Acids and Bases;

14.6: Acid – Base Titration: A Way to Quantify the

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Amount of Acid or Base in a Solution; 14.7: Strong and ...

~~14: Acids and Bases – Chemistry LibreTexts~~  
chapters 14 and 15 acids and bases Acids and Bases are substances that either have  $H^+$  (acids) or  $OH^-$  (bases) when dissolved in  $H_2O$ . Properties of acids include a sour taste, creating hydrogen gas with active metals, turn blue litmus paper red, strong acids combine with strong bases to make water and a salt, and have a charge.

~~Ch. 14/ 15 Acids and Bases~~

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14.1 The nature of acids and base 1. Arrhenius Definition. Acids produce hydrogen ions in aqueous solution. Bases produce hydroxide ions when dissolved in water. The definition is limited to aqueous solutions. Only one kind of bases is identified. Ammonia,  $\text{NH}_3$ . could not be an Arrhenius base.

## ~~CHAPTER 14 ACIDS AND BASES~~ Philadelphia University

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Bases produce hydroxide ions in aqueous solutions  
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~~chap14notes.pdf~~ Chapter 14 Acids and Bases  
14.1 The ...

Chemistry 12 Ch 4 : 1 Acids and Bases Page | 1

Chapter 14: Acids and Bases Check

MasteringChemistry Deadlines . Acids and Bases:

The sour taste of lemons and lime, the bite of

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sourdough bread, and the tang of a tomato are all caused by acids. Citric acid, acetic acid, and tartaric acid are examples.

### ~~Chapter 14: Acids and Bases~~

School Chapter 14 Review/Acids and Bases Two pages take chemistry learners on a survey of acids and bases. High schoolers write formulas and name compounds. They identify conjugate bases and acids with the aid of a table (not provided).

Chapter 14 Review/Acids and Bases Worksheet for 9th - 12th ... Acids and Bases: Chapter 14 & 15 .

~~Chapter 14 Acids Bases Worksheet — Kora~~  
View Chapter\_14\_-\_Acids\_and\_Bases.ppt from CHE 101 at University of Poonch, Rawalakot. Acids and Bases Topics to be covered: • Definitions of acids and bases; • Bronsted ' s conjugate acid-base

~~Chapter\_14\_-\_Acids\_and\_Bases.ppt — Acids and Bases Topics ...~~

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~~Ch. 14: Acids and Bases Flashcards | Quizlet~~

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## IB Chemistry HL: Unit 14: Acids & Bases

ANSWERS 4/10 Short Answers 1) (a) In the reaction  $2\text{H}_2\text{O}(l) \rightleftharpoons \text{H}_3\text{O}^+(\text{aq}) + \text{OH}^-(\text{aq})$  use the Bronsted-Lowry Theory to discuss the acidic and/or basic nature of water. [2]  $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$  Water can donate a proton (BL acid) or receive a proton (BL base)

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~~Ch. 14 — Acids and Bases — ABC Science~~

Acids and bases have a wide variety of uses and can react together in neutralisation reactions. ... Most common pH values occur between 0 and 14. Acids have a pH of less than 7.

~~The pH scale — Acids and bases — National 4 Chemistry ...~~

Major topics: Arrhenius vs. Bronsted-Lowry definition of acids and bases, conjugate acid/base, acid dissociation constant ( $K_a$ ), & strong vs weak acids

~~Chapter 14 (Acids and Bases) – Part 1 – YouTube~~  
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~~CH.14 – Acids and Bases Flashcards | Quizlet~~  
CHAPTER 14 ACIDS AND BASES Questions 19.  
Acids are proton ( $H^+$ ) donors, and bases are

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proton acceptors.  $\text{HCO}_3^-$  as an acid:  $\text{HCO}_3^- (\text{aq}) + \text{H}_2\text{O}(\text{l}) \rightleftharpoons \text{CO}_3^{2-} (\text{aq}) + \text{H}_3\text{O}^+ (\text{aq})$   
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## ~~CHAPTER 14 ACIDS AND BASES~~

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Page 33/39

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### ~~Chapter 14: Acids and Bases Flashcards | Quizlet~~

The acid and base have neutralized each other, and the acidic and basic properties are no longer present. Salt solutions do not always have a pH of 7, however. Through a process known as hydrolysis, the ions produced when an acid and base combine may react with the water molecules to produce a solution that is slightly acidic or basic.

We will not go into details here, but generally if a strong acid is mixed with a weak base there the resulting solution will be slightly acidic; if a strong ...

## ~~14.5: Reactions of Acids and Bases – Chemistry LibreTexts~~

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~~ch 14 15 chemistry acids bases Flashcards and~~

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## ~~Study Sets ...~~

REMEMBER strong acids and bases! This is VERY helpful on the AP Chemistry exam :D Strong Acids  $\text{H}_3\text{O}^+$  (Only a few compounds like  $\text{H}_3\text{OCl}$  and  $\text{H}_3\text{ONO}_3$  are known to contain hydronium ions.)  $\text{HCl}$ ,  $\text{HBr}$ ,  $\text{HI}$ ,  $\text{HClO}_4$ ,  $\text{HNO}_3$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{HClO}_3$  Strong Bases

## ~~Chapter 14 Acids Bases Worksheet - Kora~~

The acid and base have neutralized each other, and the acidic and basic properties are no longer present. Salt solutions do not always have a pH of

*Page 36/39*

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~~Chapter 14 (Acids and Bases) – Part 1 –~~  
YouTube

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~~ch 14 15 chemistry acids bases Flashcards and Study Sets ...~~

~~14: Acids and Bases - Chemistry LibreTexts~~

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~~The pH scale - Acids and bases - National 4~~

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Chemistry ...

Chapter 14: Acids and Bases