# AP Chemistry: Acid-Base Worksheet

AP Chemistry Acid-Base WS 0809.doc

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_

 In the following equations, label each species as an acid or a base. Show the conjugate acid-base pairs.

a.  $HCO_3^-(eq) + HF_{(eq)} \leftrightarrow H_2CO_{3(eq)} + F_{(eq)}$ b.  $HCO_3^-(eq) + OH^-_{(eq)} \leftrightarrow CO_3^{-2}_-(eq) + H_3O_{(f)}$ 

2. In the following reactions, identify the Lewis acid and the Lewis base.

a.  $Ag^* + 2NH_2 \leftrightarrow Ag(NH_3)_2$ 

b. B(OH)<sub>3</sub> + H<sub>2</sub>O ↔ B(OH)<sub>4</sub> + H\*

For the following reaction, decide which species (reactants or products) are favored at the completion of the reaction.

 $SO_{1}^{2}(aq) + HCN(aq) \leftrightarrow HSO_{1}(aq) + CN'(aq)$ 

4. Which member of each of the following pairs is the stronger acid?

a. NH<sub>a</sub>, PH<sub>a</sub>

e. HSO, , HSeO,

b. HI, H.Te

c. HSO<sub>3</sub> , H<sub>3</sub>SO<sub>3</sub>

d. H-AsO., H-AsO.

5. Calculate the concentrations of hydronium ion and hydroxide ion at 25°C in

a. 0.15M HNO,

b. 0.010M Ca(OH),

- 6. A sample of orange juice has a hydronium-ion concentration of 2.9x10<sup>-1</sup>M. What is the pH? Is the solution acidic?
- 7. The pH of human arterial blood is 7.40. What is the hydronium ion concentration?

# **Ap Worksheet 06d Acids And Bases Answer**

**Zhe Xu** 

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Government reports annual index ,199? AP Chemistry For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out or your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam AP Chemistry Flashcards, Fourth Edition: Up-to-Date Review and Practice Barron's Educational Series, Neil D. Jespersen, 2022-09-27 Be prepared for exam day with Barron's Trusted content from an AP Chemistry expert Barron's AP Chemistry Flashcards includes 500 up to date content review and practice questions. These are the only flashcards you ll need to be prepared for exam day Written by an Experienced Educator Learn from Barron's all content is written by an expert AP Chemistry teacher Build your understanding with review and practice tailored to the most recent exam and AP Chemistry course outline Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with practice questions for all sections of the AP Chemistry exam that reflect actual exam questions in format content and degree of difficulty Deepen your understanding by reviewing the detailed answer explanations and chemical reactions that accompany all questions Strengthen your knowledge with a review of all 4 Big Ideas in an easy to follow format AP Chemistry 2020 & 2021: AP Chemistry Review Book and Practice Questions for the

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