

# Acids & Bases: Assessment Review

Name \_\_\_\_\_

*Goal – The student will be able to identify the acid, base, conjugate acid, and conjugate base in an acid – base reaction.*

1. Write a chemical equation showing how  $\text{HCO}_3^-$  behaves as an acid when dissolved in water. Label the acid, base, conjugate acid & conjugate base.

2. Write a chemical equation showing how ammonia ( $\text{NH}_3$ ) behaves as a base when dissolved in water. Label the acid, base, conjugate acid & conjugate base.

*Goal – The student will be able to calculate with the  $[\text{H}^+]$  or  $[\text{OH}^-]$  from the ion product ( $K_w$ ) or pH from pOH (a one-step pH block calculation).*

3. Recreate the calculation flowchart on the diagram provided. (Be careful...it's been flipped!)



4. What is  $[\text{OH}^-]$  if a solution has  $[\text{H}^+] = 7.1 \times 10^{-4} \text{ M}$ ? Is the solution acidic, basic, or neutral?

5. Calculate  $[\text{H}^+]$  in a solution if  $[\text{OH}^-] = 5.1 \times 10^{-11} \text{ M}$ . Is the solution acidic, basic, or neutral?

6. Calculate the  $[\text{H}^+]$  in a solution that shows a pOH of 11.75. Is the solution acidic, basic, or neutral?

7. What is the pOH of a solution if  $[\text{OH}^-] = 5.0 \times 10^{-4} \text{ M}$ ? Is the solution acidic, basic, or neutral?

# Chapter Solutions Acids Bases Assessment Answer Key

**John Oren Reed, Karl Eugen Guther**



## **Chapter Solutions Acids Bases Assessment Answer Key:**

**Analytical Chemistry** Bryan M. Ham,Aihui MaHam,2024-03-12 ANALYTICAL CHEMISTRY Detailed reference covering all aspects of working in laboratories including safety fundamentals of analytical techniques lab instrumentation and more A comprehensive study of analytical chemistry as it pertains to the laboratory analyst and chemist Analytical Chemistry begins with an introduction to the laboratory environment including safety glassware common apparatuses and lab basics and continues on to guide readers through the fundamentals of analytical techniques such as spectroscopy and chromatography and introduce examples of laboratory programs such as Laboratory Information Management Systems LIMS This newly updated and revised Second Edition of Analytical Chemistry offers expanded chapters with new figures and the latest developments in the field Included alongside this new edition is an updated companion teaching reference and toolkit program called ChemTech Conveniently available via either app or browser the ChemTech program contains exercises that highlight and review topics covered in the book and features useful calculators and programs including solution makers graphing tools and more To aid in reader comprehension the program also includes an interactive periodic table and chapter summaries Written by two highly qualified authors with significant experience in both practice and academia Analytical Chemistry covers sample topics such as Basic mathematics in the laboratory including different units the metric system significant figures scientific calculators and ChemTech conversion tools Analytical data treatment including errors in the laboratory precision versus accuracy normal distribution curves and determining errors in methodology Plotting and graphing including graph construction curve fitting graphs of specific equations least squares method and computer generated curves Ultraviolet visible UV Vis spectroscopy including wave and particle theory of light light absorption transitions the color wheel and pigments With complete coverage of the practical aspects of analytical chemistry Analytical Chemistry prepares students for a rewarding career as a chemist or a laboratory technician Thanks to ChemTech integration the book is also a useful and accessible reference for the established chemist or technician already working in the laboratory

*IIT JEE Foundation Science Class 10th: Essential Study Notes* , **Fundamentals of Chemistry** Lotta Jean Bogert,1924

**Laboratory Manual** William McPherson,William Edwards Henderson,1915 **Study Guide with Selected Solutions** Karen Timberlake,2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **Laboratory Manual of Inorganic Chemistry for Colleges** Lyman Churchill Newell,1916

**Chemistry for the Utterly Confused** John T. Moore,Richard H. Langley,2007-06-01 Banish bafflement in this tough subject From formulas and lab techniques to the periodic table Chemistry for the Utterly Confused focuses on the areas of maximum confusion and breaks down the most difficult chemistry topics into easy to understand concepts This invaluable guide also teaches problem solving skills you need to master this imposing subject Whether you re in high school in college

or simply brushing up on chemistry knowledge this fun easily accessible book will make understanding chemistry a breeze

*A Laboratory Manual of General Chemistry* James Henri Walton, Francis Craig Krauskopf, 1920     Chemical Interactions, 2005     Practical Chemistry for Engineering Students Arthur James Hale, 1912     Instructor's Manual and Test Bank to Accompany Basic Concepts of Chemistry Malone, 2000-04-18     *Standard Methods of Chemical Analysis: The elements* Wilfred Weldon Scott, Nathaniel Howell Furman, 1925     General Chemistry Horace Grove Deming, 1925     **SAT Subject Test Chemistry** Joseph A. Mascetta, Mark Kernion, 2020-12-01 The updated edition of Barron's SAT Subject Test Chemistry includes A full length diagnostic test with explained answers Four practice tests that reflect the actual SAT Subject Test Chemistry All questions answered and explained Detailed reviews covering all test topics Appendixes which include the Periodic Table important equation constant and data tables and a glossary of chemistry terms Both teachers and test taking students have praised earlier editions of this manual for its wealth of well organized detail Subject reviewed include the basics matter energy scientific method and measurements atomic structure and the periodic table bonding chemical formulas gases and laws stoichiometry liquids solids and phase changes chemical reactions and thermochemistry chemical reactions chemical equilibrium acids bases and salts oxidation reduction carbon and organic chemistry and the laboratory ONLINE PRACTICE TESTS Students who purchase this book or package will also get access to two additional full length online SAT Chemistry subject tests with all questions answered and explained     Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction     **All in 1 Guide Book: CBSE Class 10 for 2022 Examination** Gurukul, 2021-06-21 Benefit from Effective Practice Easy Revision for Class 10 CBSE Board Examinations 2022 with our All in 1 Guide Book Consisting of 6 subjects including English Language Literature Hindi A Hindi B Mathematics Science and Social Science Our handbook will help you study well and prepare at home with all the answers strictly based on marking scheme issued by Board Why should you trust Gurukul Books Oswal Publishers Oswal Publishers has been in operation since 1985 Over the past 30 years we have developed content that aids students and teachers in achieving excellence in education We create content that is extensively researched meticulously articulated and comprehensively edited catering to the various National and Regional Academic Boards in India How can you benefit from Gurukul All in 1 Guide Book for 10th Class Our handbook is a one stop solution for Class 10 CBSE students study requirements With multiple subjects in one book formulated chapterwise and categorywise also including NCERT Past Years Board Examination Papers Toppers's Answers our guide is a complete book you will need to prepare for 2022 board examinations Apart from study material and solved papers in 6 subjects our book is enriched with MCQs Probable Objective

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    **Electricity and magnetism** John Oren Reed,Karl Eugen Guthrie,1911

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