

Introduction to Strong and Weak Acids and Bases PhET Lab (rvsd 5/2011)

How does the strength of an acid or base affect conductivity?pH?

Introduction:

When you test your pool's pH, what are you those little vials or paper strips telling you? When you hear an acid called "strong" or "weak", what do those terms refer to? In aqueous solutions, compounds can exist as molecules (undissociated) or ions (dissociated). When an acid or a base exists in solution nearly completely as dissociated ions, we refer to that acid or base as strong. A weak acid or base will donate ions to the solution, but will remain primarily as undissociated molecules.



Name: Zahida Severson

Acid-Base Solutions



Notation:

Acids are abbreviated HA, with the H representing the proton (H+) the acid donates to the solution. The A is referred to as the acidic anion (A-) that is left in solution as the proton is donated. $HA \Leftrightarrow H^+ + A^-$

Strong Bases are abbreviated MOH, with the OH representing the hydroxide ion (OH-) the base donates to the solution. The M is cation (M+) that is left in solution as the hydroxide is donated. $MOH \rightarrow M^+ + OH^-$.

Autoionization:

Even without any acid or base added a very small number of water molecules will form protons (H+) and hydroxide ions (OH-). The protons will then form hydronium ions, the acid ion.



Procedure: PhET Simulations → Play With Sims → Chemistry → Acid-Base Solutions → Run North

The concentration of the acids and bases used in the Introduction at 0.010 (10⁻²) Molar.

- · Begin with a strong acid and lower the pH probe into the beaker. What is the pH of this solution?
- Test this strong acid with both pH paper and the conductivity probe. What color does the pH indicator become? Is this strong acid an electrolyte? Does current travel through this solution?
- Repeat the above tests with the weak acid, the strong base, and the weak base, and water. Collect your observations in the table below:

	Strong Acid	Weak Acid	Strong Base	Weak Base	Water
pH meter read (value)	2.00	4.50	12.00	9.50	7.00
pH paper (color)	Z Ked	4 orange	11 blue	9 green	7 yellow
Conductivity (bright/dim/none)	Bright	dim	wright	dim	none
Exists as Mostly (ions/molecules)	ions	ions	moderales	molecules	ions

Answer Key To Phet Densitysolution Answer

Wang, Haomin

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Interactivity in E-Learning: Case Studies and Frameworks Wang, Haomin, 2011-12-31 This book provides a comprehensive examination of interactivity combining key perspectives from communication and media studies distributed cognition system affordances user control and social interaction intended for researchers working in the fields of communication and media educational media e learning and instructional technology Provided by publisher Brain-powered Science Thomas O'Brien, 2011 Author Thomas OOCOBrien uses 20 inquiry oriented discrepant eventsOCohands on explorations or demonstrations in which the outcomes are not what students expectOCoto challenge studentsOCO preconceived ideas and urge them to critically examine the empirical evidence draw logical inferences and skeptically review their initial explanations with their peers ItOCOs the perfect dual purpose activity book for science teachers who aim to motivate their students while expanding their own scientific understanding Question Bank Chemistry Class 12 (2022 Exam) - Categorywise & Chapterwise with New Objective Paper Pattern, Reduced Syllabus Gurukul, 2021-06-21 Benefit from Chapter Wise Section wise Question Bank Series for Class 12 CBSE Board Examinations 2022 with our Most Likely CBSE Question Bank for Chemistry Subject Wise books designed to prepare and practice effectively each subject at a time Our Most Probable Question Bank highlights the knowledge based and skill based questions covering the entire syllabus including Definitions MCQs IUPAC Nomenclature Very Short Questions Short Answers Reasoning Based Questions Long Answers I Long Answers II Named Reactions Laws Structure or Diagram Based Questions Differentiate Between or Derivatives Reacction Baded Questions Mechanism Conversions Case Based Questions etc Our handbook will help you study and practice well at home How can you benefit from Gurukul Most Likely CBSE Chemistry Question Bank for 12th Class Our handbook is strictly based on the latest syllabus prescribed by the council and is categorized chapterwise topicwise to provide in depth knowledge of different concept questions and their weightage to prepare you for Class 12th CBSE Board Examinations 2022 1 Focussed on New Objective Paper Pattern Questions 2 Includes Solved Board Exam Paper 2020 for both Delhi and outside Delhi Set 1 3 and Toppers Answers 2019 3 Previous Years Board Question Papers Incorporated 4 Visual Interpretation as per latest CBSE Syllabus 5 Exam Oriented Effective Study Material provided for Self Study 6 Chapter Summary for Easy Quick Revision 7 Having frequently asked questions from Compartment Paper Foreign Paper and latest Board Paper 8 Follows the Standard Marking Scheme of CBSE Board Our question bank also consists of numerous tips and tools to improve study techniques for any exam paper Students can create vision boards to establish study schedules and maintain study logs to measure their progress With the help of our handbook students can also identify patterns in question types and structures allowing them to cultivate more efficient answering methods Our book can also help in providing a comprehensive overview of important topics in each subject making it easier for students to solve for the exams Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education Cavadas,

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