

Introduction to Strong and Weak Acids and Bases PhET Lab (read 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.



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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

Slink Wave Lab Chapter 5 Answer Sheet

Ying Liu

Slink Wave Lab Chapter 5 Answer Sheet:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and Mathematics & Science in the Real World ,2000 ENC Focus ,2000 Merrill Earth Science concerned parents Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 Middle School Science & Technology ,1994

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Table of Contents Slink Wave Lab Chapter 5 Answer Sheet

- 1. Understanding the eBook Slink Wave Lab Chapter 5 Answer Sheet
 - The Rise of Digital Reading Slink Wave Lab Chapter 5 Answer Sheet
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Slink Wave Lab Chapter 5 Answer Sheet
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - o Features to Look for in an Slink Wave Lab Chapter 5 Answer Sheet
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Slink Wave Lab Chapter 5 Answer Sheet
 - Personalized Recommendations
 - Slink Wave Lab Chapter 5 Answer Sheet User Reviews and Ratings
 - Slink Wave Lab Chapter 5 Answer Sheet and Bestseller Lists

- 5. Accessing Slink Wave Lab Chapter 5 Answer Sheet Free and Paid eBooks
 - Slink Wave Lab Chapter 5 Answer Sheet Public Domain eBooks
 - Slink Wave Lab Chapter 5 Answer Sheet eBook Subscription Services
 - Slink Wave Lab Chapter 5 Answer Sheet Budget-Friendly Options
- 6. Navigating Slink Wave Lab Chapter 5 Answer Sheet eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Slink Wave Lab Chapter 5 Answer Sheet Compatibility with Devices
 - Slink Wave Lab Chapter 5 Answer Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Slink Wave Lab Chapter 5 Answer Sheet
 - Highlighting and Note-Taking Slink Wave Lab Chapter 5 Answer Sheet
 - Interactive Elements Slink Wave Lab Chapter 5 Answer Sheet
- 8. Staying Engaged with Slink Wave Lab Chapter 5 Answer Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Slink Wave Lab Chapter 5 Answer Sheet
- 9. Balancing eBooks and Physical Books Slink Wave Lab Chapter 5 Answer Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Slink Wave Lab Chapter 5 Answer Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Slink Wave Lab Chapter 5 Answer Sheet
 - Setting Reading Goals Slink Wave Lab Chapter 5 Answer Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Slink Wave Lab Chapter 5 Answer Sheet
 - Fact-Checking eBook Content of Slink Wave Lab Chapter 5 Answer Sheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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