

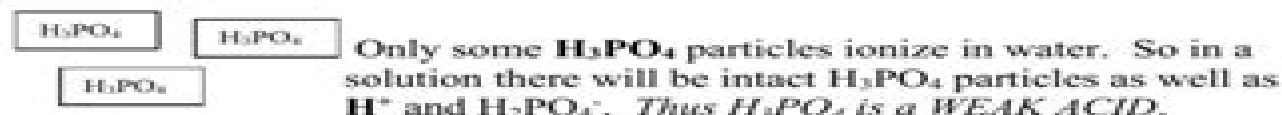
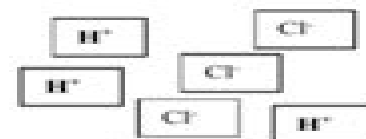
Acid and Base Strength Worksheet

Name _____

Period _____ Date _____

What makes an acid *acidic* are the *excess hydrogen ions (H^+)** that these substances cause in a water solution.

Strong acids, like HCl, dissociate (break up) completely in solution, giving a maximum number of hydrogen ions. Another way to say this is, strong acids **IONIZE** completely while weak acids don't.



So, how do you know which acids are strong and which are weak?
Easy; there are a few rules.

First, a few definitions:

- A **binary acid** is made of **two elements**: hydrogen and something else. HCl is a binary acid made of hydrogen and chloride. Count 'em. Hydrogen (one), chloride (two). Ta-da!
- A **ternary acid** is made of **more than two elements**: hydrogen and at least two other elements. H_2SO_4 , with three elements, is a ternary acid. So is H_3PO_4 and acetic acid, $HC_2H_3O_2$. (Notice acid formulas always start with a hydrogen. These are the hydrogens that can break free in water to a lesser or greater degree depending on the strength of the acid.)

THE RULES for deciding if an acid is strong or weak!

- **The only strong binary acids are HCl, HBr, and HI.** (Notice Cl, Br, and I are together on the periodic table.) All other binary acids are weak.
- Ternary acids are a little trickier, but not much. Compare the number of oxygens and hydrogens in the formula. **If the number of oxygens exceeds the number of hydrogens by 2 or more, the acid is strong.** All other ternary acids are weak.

H_3PO_4 3 hydrogens and 4 oxygens (only one more oxygen than hydrogen). **WEAK**

H_2SO_4 2 hydrogens and 4 oxygens (two more oxygens than hydrogen). **STRONG.**

*Technically, the free H^+ usually combines with a water molecule to form a hydronium ion (H_3O^+), but we will ignore this for the time being.

19 2 Hydrogen Ions And Acidity Worksheet Answers

Sir Tarun Rupani



19 2 Hydrogen Ions And Acidity Worksheet Answers:

Class 10th Science Worksheet , This book is as per the guidelines syllabus and marking scheme issued by CBSE for Class X The salient features of this workbook are The questions in the this book have been so designed that complete syllabus is covered This book help students to identify their weak areas and improve them Additional it will help students gain confidence The questions in the book are of varying difficulty level and will help students evaluate their reasoning analysis and understanding of the subject matter *Educart One-shot Science CBSE Class 10 Question Bank 2025-26 on new Syllabus 2026 (Strictly for Boards Exam)* Educart,2025-05-26 Book Structure Handpicked Important Ch wise Q s How Good is the Educart One shot Question Bank Covers essential topics with concise yet detailed explanations to help you grasp concepts quickly Aligned with the latest rationalised syllabus to ensure relevant and up to date content Includes a variety of High Order Thinking Questions to build problem solving skills Step by step answers to NCERT and exemplar problems for better understanding Previous Year DIKSHA Platform Questions to give you real exam exposure Smart Study Tips Tricks to strengthen your conceptual clarity and boost confidence Why choose this book Get the Educart One Shot Question Bank today and take your exam preparation to the next level **Topics-aids** Rod O'Connor,1975 [Educart ICSE Class 10 One-shot Question Bank 2026 Chemistry \(strictly for 2025-26 boards\)](#) Sir Tarun Rupani,2025-07-12 Fast track your Chemistry revision with this exam ready resource This One shot Question Bank by Sir Tarun Rupani is designed to help ICSE Class 10 students revise the complete Chemistry syllabus quickly and thoroughly It simplifies theory boosts numerical accuracy and ensures strong exam practice all aligned with the 2025 26 ICSE syllabus Key Features Strictly Based on ICSE 2025 26 Curriculum Complete chapter coverage including Periodic Table Chemical Bonding Acid Base Organic Chemistry and more One shot Format Each chapter includes concise concept notes chemical equations reactions and key diagrams for quick recall Complete Coverage of Question Types Includes objective short long answers equation based numerical and reasoning questions Chapterwise PYQs Included Practice with previous years ICSE board questions to understand trends and improve retention Solved Answers in ICSE Format Clear well structured solutions using proper units chemical symbols and balanced equations Smart Revision Focus Special tips to avoid common mistakes in writing reactions balancing equations and attempting numericals Why Choose This Book This Chemistry One shot by Sir Tarun Rupani is built for smart preparation whether you re revising at the last minute or practising throughout the term It helps you approach each question with clarity confidence and the precision needed to score high in the 2026 ICSE board exam **Catalog of Instructional Films (16mm, Super 8, and 8mm) for College Chemistry** Advisory Council on College Chemistry,1969 **The ABC of Hydrogen Ion Control** La Motte Chemical Products Company,William Anthony Taylor,1928 **The Determination of Hydrogen Ions** W. M. Clark,1923 *The Determination of Hydrogen Ions* Wilhelm Mansfield Clark,1928 **The ABC of Acid-base Chemistry ...** Horace Willard Davenport,1974

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