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## Acids and Bases Worksheet 1

1. Finish the following reactions when acids are added to water.

- $\text{H}_2\text{SO}_4 + \text{H}_2\text{O} \rightarrow$
- $\text{HCl} + \text{OH}^- \rightarrow$
- $\text{NH}_3 + \text{H}_2\text{O} \rightarrow$
- $\text{HCl} + \text{NH}_3 \rightarrow$

2. What are the conjugate bases of these acids?

original acid	conjugate base
$\text{HNO}_3$	
$\text{H}_2\text{O}$	
$\text{H}_3\text{O}^+$	
$\text{H}_2\text{SO}_4$	
$\text{HBr}$	
$\text{HCO}_3^-$	

3. What are the conjugate acids of these bases?

original base	conjugate acid
$\text{OH}^-$	
$\text{H}_2\text{O}$	
$\text{HCO}_3^-$	
$\text{SO}_4^{2-}$	
$\text{ClO}_2^-$	

4. Which of the following represent conjugate acid-base pairs?

- $\text{H}_2\text{O}, \text{H}_3\text{O}^+$
- $\text{OH}^-, \text{HNO}_3$
- $\text{H}_2\text{SO}_4, \text{SO}_4^{2-}$
- $\text{HCl}, \text{H}_2\text{O}, \text{C}_2\text{H}_3\text{O}_2^-$

5. Calculate the  $[\text{H}^+]$  in a solution in which  $[\text{OH}^-] = 2.0 \times 10^{-2} \text{ M}$ . Is this solution acidic, neutral, or basic?

6. Calculate the  $[\text{OH}^-]$  in a solution in which  $[\text{H}^+] = 3.99 \times 10^{-3} \text{ M}$ . Is this solution acidic, neutral, or basic?

7. Convert each of the following into pH. Identify each as an acidic, neutral, or basic.

- $0.0015 \text{ M H}^+$

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The 17 hidden vocabulary words are: Chemistry, Matter, Element, Molecule, Mixture, Heterogeneous, Homogeneous, Acid, Base, Heat, Atom, Proton, Neutron, Electron, Ion, Chemical reaction, Periodic Table Related resources include: Chemistry (Middle School) - Worksheets Chemistry Worksheets - Google Slides™ and PDFs Chemistry Worksheets Bundle - Easel Activity Answer key included. For updates about sales and Page 3 This Chemistry Worksheet comes with Answers and covers Titrations in Chemical Changes. Key words include: Reactions, Acid, Base, Neutralization, Burette, Conical Flask, pH, Single Indicator, Endpoint, Water, Solution, Hydrogen Ions and Practicals. Who is this for? This homework is intended for upper middle school and high school students. Files ► 1 worksheet ► 1 answer sheet These worksheets come as 2 separate PDF files in a zip folder. Once downloaded, simply right-click and choose "Extract All". If Page 4 States of Matter Vocabulary - Fun activity for learning 31 chemistry vocabulary words pertaining to the earth and its changes in matter. Use with middle school students as a warm up, fast finisher activity, in centers or for no prep sub plans. Aligns with Glencoe Earth Science. Vocabulary Includes: acid, base, bond, catalyst, chemical, combustion, compound, concentration, covalent, desalination, element, entropy, equation, fluid, formula, fusion, half life, indicator, inhibitor, ionic, isotop Page 5 Three Witty Goats Gruff is a poem I wrote that is based on a variation of the original Three Billy Goats Gruff. In this charming poem, students look at an alternate way to end the story. While doing so, they reinforce important Literacy skills (i.e., new vocabulary, making predictions, using context clues to make inferences, singular/plural pronouns, synonyms), as well as Math concepts (i.e., counting backwards, detecting patterns, reinforcing concept about measurement/size, subtracting). In ad Whether you're looking for a revision worksheet or a homework task, these Rocket Sheets are perfect! Answers are included with every resource and we ensure each sheet is high quality and accurate. Last updated 21 June 2022 A revision homework or class worksheet with answers that covers Acids and Bases in C4 GCSE Chemistry. Save over 75% with the TES Bundle. Topics include Calculating H+ Concentrations, Alkali and Strong or Weak Acids with a variety of questions and challenging calculations. What's inside? 1 Revision/worksheet with a variety of different questions 1 Answer sheet with solutions Which content does it cover? This practice sheet covers part of Topic 4 of Chemistry - Chemical Changes It's designed for both GCSE Triple Award Science (separate sciences) and Double Award Science (combined science) students. It's optimised for the AQA Grade 9-1 Specification 2016 onwards It is also suitable for lower ability students but gets increasingly challenging What are the questions like? Rocket worksheets have an optimal layout for a typical classroom lesson. For example, the short and easy starter exercise introduces students to the topic whereas the 'Main Stage' develops their understanding. The type of questions included in Rocket Sheets: Labelling the diagram True or false statements Gap-fill Complete the sentences Practical questions Explaining methods Challenging questions Multiple choice questions About Rocket Sheets... Rocket Sheets are setup in an ideal layout to build a student's knowledge. The four stages imitate a rocket's flight and are: Launch A quick starter or warm up. Main Stage The main learning and bulk of the content. Boost A challenge for those that want to extend their knowledge or find the exercises too easy. Landing A plenary at the end to conclude and summarise the information covered. Unhappy? Feel free to contact us via Twitter and we'll be happy to sort out any issues. @rocketsheets Tes paid licence How can I reuse this? Select overall rating (no rating) Your rating is required to reflect your happiness. Write a review Update existing review It's good to leave some feedback. Something went wrong, please try again later. This resource hasn't been reviewed yet To ensure quality for our reviews, only customers who have purchased this resource can review it Report this resource to let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch. GCSE Chemistry Exam Questions By Topic Finish! Please allow access to the microphone Look at the top of your web browser. If you see a message asking for permission to access the microphone, please allow. Close In this page we have Worksheet for Class 7 Science Chapter 5: Acid Base and Salt. Hope you like them and do not forget to like, social share and comment at the end of the page. > Question 1 Fill in the blanks (a) The most commonly used natural indicator is \_\_\_\_\_ and is extracted from \_\_\_\_\_. (b) Aqueous solution of baking soda is bitter in taste and feels soapy on touching because it contains \_\_\_\_\_. (c) \_\_\_\_\_ are used to test whether a substance is acidic or basic in nature. (d) \_\_\_\_\_ change their colour when added to a solution containing an acidic or basic substance. (e) Lemon juice, orange juice taste sour because they contain \_\_\_\_\_. (f) The solutions which do not change the colour of either blue or red litmus are called \_\_\_\_\_ solutions. (g) Turmeric and litmus are \_\_\_\_\_ acid-base indicators. (h) In neutralization reaction heat is always \_\_\_\_\_. (i) Salts may be \_\_\_\_\_ or \_\_\_\_\_ in nature. (j) Chemically milk of magnesia is \_\_\_\_\_ and baking soda is \_\_\_\_\_. (k) China rose indicator turns \_\_\_\_\_ solution to dark pink and \_\_\_\_\_ solution to green (l) The correct way of making a solution of acid in water is to \_\_\_\_\_. Answer (a) litmus, lichens (b) Base (c) Indicator (d) Indicator (e) Acid (f) Neutral (g) Natural (h) produced or evolved (i) acidic, basic or neutral (j) Magnesium hydroxide, Sodium bicarbonate (k) acidic, basic (l) add acid to water. > Question 2 Sodium bicarbonate is commonly called (a) Lime water (b) Slaked lime (c) Washing soda (d) Baking soda Question 3 Which of the following statements is correct? (a) Indicator is a substance that shows different colors in acidic and basic solution. (b) Turmeric stain on a white shirt turns to red when it is washed with soap. (c) Lime water is a solution of calcium hydroxide. (d) All the above are correct. Question 4 > Neutralisation reaction is a (a) physical and reversible change. (b) physical change that cannot be reversed. (c) chemical and reversible change. (d) chemical change that cannot be reversed Question 5 Which of the following is an acid-base indicator? (a) Vinegar (b) Lime water (c) Turmeric (d) Baking soda Question 6 'Litmus', a natural dye is an extract of which of the following? (a) China rose (Gudhal) (b) Beetroot (c) Lichen (d) Blue berries (Jamun) Question 7 Which medicines are used for treating indigestion? (a) Antibiotic (b) Analgesic (c) Antacids (d) Antiseptic Answer 2-7 2. (d) 3. (d) 4. (d) 5. (c) 6. (c) 7. (c) > Question 8 Provide the chemical Name of below acid or base (a) Vinegar (b) Fruits (orange) (c) Curd (d) Lime water (e) Window cleaner (f) Soap Answer (a) Acetic acid (b) Citric acid (c) Lactic acid (d) Calcium hydroxide (e) Ammonium hydroxide (f) Sodium hydroxide > > Question 9 What is the colour change for below indicator for Acid and Bases (a) Blue litmus (b) Red litmus (c) Phenolphthalein (d) Turmeric Answer (a) Acid : Turns Red, Base : No change (b) Acid : No change, Base : Turns Blue (c) Acid : Colourless, Base: pink color (d) Acid: No change, Base : change to red Question 10 Give a reason why (a) Great care should be taken while handling laboratory acids and bases. (b) Solid powder of baking soda does not turn dry litmus paper to blue in color. Question 11 Define acid rain and how it is produced? What are its harmful effect? Question 12 Define neutralization reaction with an example. List its 3 applications. Question 13 You are provided with four test tubes containing sugar solution, baking soda solution, tamarind solution, salt solution. Write down an activity to find the nature (acidic/basic/neutral) of each solution. link to this page by copying the following text > Worksheet for Class 7 Science Chapter 5: Acid Base and Salt Also Read Class 7 Maths Class 7 Science



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