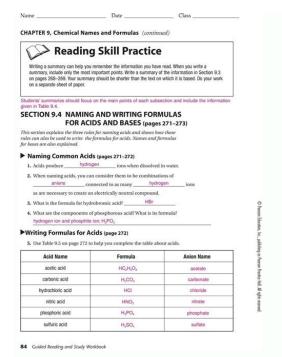
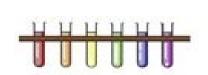
Acids and bases revision worksheet

I'm not robot!









In your science journal fill in the definitions of an acid and a base.

## Materials:

- Small cup of lemon juice, orange juice, apple juice, baking soda, drain cleaner, and bleach.
   (purchased all at the Dollar Store)
- Tiny spoon / small flat wooden stick
- Prepared cabbage ph indicator (60ml)
- Dropper & cup of water to clean it in
- Test tube rack & 6 test tubes - Masking tape & a marker
- Graduated cylinder
- Safety Goggles
- 1. Label your test tubes A F using masking tape.
- 2. In each test tube pour 10ml of the cabbage indicator solution.

\*As you complete each step below, please fill in the color each solution becomes. Record on your data table in your science journal. (We will fill in all other boxes at the end of the lab) Make sure to clean your dropper after each step.

- 3. With your dropper, add 5 drops of lemon juice to test tube A & swirl.
- 4. With your dropper, add 5 drops of orange juice to test tube B & swirl.
- 5. With your dropper, add 5 drops of apple juice to test tube C & swirl.6. With your dropper, add 1 tiny spoon of baking soda to test tube D & swirl.
- 7. With your dropper, add 5 drops of drain cleaner to test tube E & swirl.
- 8. With your dropper, add 5 drops of bleach to test tube F & swirl.

Color							
Ph				7			
Test Tube	A	В	С	Cabbage Indicator	D	Ε	F
Acid or base?	Strong		Weak	Neutral	Weak		Strong

9. Now add 30 more drops (6 scoops for the baking soda) to each test tube, swirl, and observe what happens. Why do you think this happened?

## **AMPHOLYTES**

Ampholytes are amphiprotic substances. This means that they can accept and donate protons thereby acting as both an acid or a base, depending on what they are mixed with.

Water is a good example of this.

The H₂O molecule contains both H\* and OH

Other examples include  $\, \text{HSO}_4^-$  ,  $\text{HCO}_3^-$  ,  $\text{H}_2\text{PO}_4^-$  and  $\, \text{HPO}_4^{2-}$ 

as an acid			as a base		
	(proton donor)		(proton acceptor)		
1	H <sub>2</sub> O : H <sub>2</sub> O → H* + OH <sup>-</sup>	1	$H_2O$ : $H_2O + H^+ \rightarrow H_3O^+$		
2	$HSO_4^-$ : $HSO_4^- \rightarrow H^+ + SO_4^{2-}$	2	$HSO_4^-$ : $HSO_4^- + H^+ \rightarrow H_2SO_4$		
3	HCO <sub>3</sub> <sup>-</sup> : HCO <sub>3</sub> <sup>-</sup> → H* + CO <sub>3</sub> <sup>2-</sup>	3	HCO <sub>3</sub> <sup>-</sup> : HCO <sub>3</sub> <sup>-</sup> + H* → H <sub>2</sub> CO <sub>3</sub>		
4	$H_2PO_4^- : H_2PO_4^- \rightarrow H^+ + HPO_4^2$	- 4	$H_2PO_4^- : H_2PO_4^- + H^+ \rightarrow H_3PO_4$		
5	HPO42- : HPO42- → H+ + PO42-	5	HPO42- : HPO42- + H+ → H2PO4-		

## Question 1

State whether the following are ampholytes or not:

{Just type yes or no next to the substance}

- 1.1 HSO<sub>4</sub>
- 1.2 H<sub>2</sub>O
- 1.3 H<sub>2</sub>SO<sub>4</sub>1.4 H<sub>2</sub>CO<sub>3</sub>
- Paris Paris

<ol> <li>A substance that produces h</li> </ol>	ydrogen ions in solution is a(n)
a. acid	b. base
these foods.	trus fruits is caused by the presence of in
a. acid	b. base
<ul> <li>3. An acid that ionizes almost of a. strong acid</li> </ul>	ompletely in solution is a b. weak acid
4. The strength of a base is dete	ermined by
a. the concentration of the	solution
<ul> <li>b. how completely is separa</li> </ul>	ates into ions in solution
5. A substance that produces h	ydroxide ions in solution is a(n)
a. acid	b. base
6. A hydrogen ion is indicated b	oy
a. H*	b. OH'
7. The pH of a substance can be	e determined by using a device called
a. an acid meter	b. a pH meter
8. The term dilute is used to ref	fer to the of an acid or base.
a. strength	b. concentration
9. A hydroxide ion is indicated b	by .
a. OH	b. OH
10. An organic compound that	changes color in an acid or a base is an
a. indicator	b. alcohol
11. The acidity of a solution car	be indicated by its
a. pH	b. concertation
12. On the pH scale, a solution	with a pH of 7 is
a. acidic	b. neutral
13. When an acid is dissolved in	water H* ions form
a. hydrogen molecules	b. hydrogen ions
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14. The formula for a hydrogen a. H*	b. OH
15. On the pH scale, a solution a. acidic	with a pH of 3 is b. basic

Acids and Bases Worksheet 1

- Finish the following reactions when acids are added to water a. H<sub>2</sub>SO<sub>4</sub> + H<sub>2</sub>O <sup>3</sup>
  - b.  $HCI + OH \rightarrow$ c.  $NH_1 + H_2O \rightarrow$

d. HCl + NH₃ →

2. What are the conjugate bases of these acids?

original acid	conjugate base
HNO <sub>3</sub>	12003
H <sub>2</sub> O	1
H <sub>3</sub> O*	
H <sub>2</sub> SO <sub>4</sub>	
HBr	

3. What are the conjugate acids of these bases?

HCO<sub>3</sub>

original base	conjugate acid
OH.	
H <sub>2</sub> O	
HCO3	
SO <sub>4</sub> 2-	
CIO <sub>4</sub>	

- 4. Which of the following represent conjugate acid-base pairs?
  a. H<sub>2</sub>O, H<sub>2</sub>O<sup>+</sup>
- b. OH, HNO<sub>3</sub>

c. H<sub>2</sub>SO<sub>4</sub>, SO<sub>4</sub><sup>-2</sup> d. HC<sub>2</sub>H<sub>3</sub>O<sub>2</sub>, C<sub>2</sub>H<sub>3</sub>O<sub>2</sub><sup>-</sup>

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

6. Calculate the [OH $^{-}$ ] in a solution in which [H $^{+}$ ] = 3.99 x 10 $^{-5}$  M. Is this solution acidic, neutral, or basic?

following text>Worksheet for Class 7 Science Chapter 5: Acid Base and Salt Also Read Class 7 Maths Class 7 Science

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

a. 0.0015 M H<sup>+</sup>

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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 TableRelated resources include: Chemistry Worksheets - Google Slides and PDFsChemistry Worksheets - Google Slides and Page 3This 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 4States of Matter Vocabulary words pertaining to the 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, isotopPage 5Three 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 2022A 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 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 science) and Double Award Science (separate 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 guestions 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 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 licenceHow can I reuse this? Select overall rating(no rating) Your rating is required to reflect your happiness. Write a reviewUpdate existing reviewIt's good to leave some feedback. Something went wrong, please try again later. This resource hasn't been reviewed yetTo ensure quality for our reviews, only customers who have purchased this resource can review itReport this resource to let us know if it violates our terms and conditions. Our customer service team 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 (b) Aqueous solution of baking soda is bitter in taste and feels soapy on touching because it contains from (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 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 (e) Acid (f) Neutral (g) Natural (h) produced or evolved (i) acidic, basic (r) acidic, basic (r) acidic, basic (r) acidic passic passic

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