



# INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject: Science

## Acids, Bases and Salts

Date of worksheet: 09.05.2019

Resource Person: Mrs. Saritha Kishore




Name of the Student: \_\_\_\_\_ Class & Div : VII \_\_\_\_\_ Roll.No: \_\_\_\_\_

<b>I</b>	<b>Correct the following incorrect statements by substituting highlighted words.</b>	1 each																				
	<ol style="list-style-type: none"> <li>1. <b>Acids</b> are bitter in taste and soapy to touch.</li> <li>2. Litmus is extracted from <b>china rose</b>.</li> <li>3. Sodium hydroxide turns <b>blue</b> litmus <b>red</b>.</li> <li>4. Tooth decay is caused by a <b>base</b>.</li> <li>5. <b>Calamine lotion</b> is used in case of indigestion.</li> <li>6. <b>Calcium carbonate</b> is used as washing soda.</li> </ol>																					
<b>II</b>	<b>Write True for the true statement and false for the false one.</b>	1 each																				
	<ol style="list-style-type: none"> <li>1. A wasp sting is alkaline and can be neutralized with vinegar.</li> <li>2. Ammonium hydroxide are acids used in removing grease from window panes.</li> <li>3. Neutral substance are neither acidic nor basic.</li> <li>4. The Latin word “acidus” or “acere” means salty.</li> <li>5. To make an acid concentrated, acid can be added slowly to water with constant stirring.</li> </ol>																					
<b>III</b>	<b>Fill in the blanks</b>	1 each																				
	<ol style="list-style-type: none"> <li>1. End products of neutralization are always _____.</li> <li>2. To relieve indigestion we can take an antacid which contains _____.</li> <li>3. The sting of an ant is treated with a _____.</li> <li>4. Indicators change their colour when added to a solution containing an _____ or _____ substance.</li> <li>5. Vinegar is a _____ acid.</li> </ol>																					
<b>IV</b>	<b>Choose the correct answer.</b>	1 each																				
	<ol style="list-style-type: none"> <li>1. The _____ (mouth/stomach) secretes hydrochloric acid.</li> <li>2. If there is no change on addition of phenolphthalein indicator, then the solution is _____ (acidic/basic).</li> <li>3. Sodium hydrogen carbonate is also known as _____. (calamine/baking soda).</li> </ol>																					
<b>V</b>	<b>List the acids/bases present in the following.</b>	1 each																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Apple</td> <td style="width: 25%;"></td> <td style="width: 25%;">Citrus fruits</td> <td style="width: 25%;"></td> </tr> <tr> <td>Curd</td> <td></td> <td>Lime water</td> <td></td> </tr> <tr> <td>Amla</td> <td></td> <td>Milk of Magnesia</td> <td></td> </tr> <tr> <td>Tomato</td> <td></td> <td>Ant and bee sting</td> <td></td> </tr> <tr> <td>Tamarind</td> <td></td> <td>Grapes</td> <td></td> </tr> </table>	Apple		Citrus fruits		Curd		Lime water		Amla		Milk of Magnesia		Tomato		Ant and bee sting		Tamarind		Grapes		
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VI	<b>Answer the following</b>																	
1.	Complete the reaction: $\text{HCl} + \text{NaOH} \rightarrow \underline{\hspace{2cm}}$	1																
2.	Here is a list of items from the kitchen. Organise them into two groups: acidic or basic. Orange (    ), antacid (    ), soap (    ), bleach (    ), curd (    ), Vinegar (    ), Spinach (    ), baking soda (    ), grape juice (    ).	1																
3.	<p>Complete the table given below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  (B)         </div> <div style="text-align: center;">  (C)         </div> <div style="text-align: center;">  (D)         </div> </div> <p style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>Baking power in water</span> <span>Vinegar in water</span> <span>Glucose in water</span> </p> <table border="1" style="margin: 10px auto; border-collapse: collapse; width: 80%;"> <thead> <tr> <th style="width: 15%;">Test solution</th> <th style="width: 25%;">Nature of the solution</th> <th style="width: 25%;">Change in colour of red litmus</th> <th style="width: 35%;">Change in colour of blue litmus</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Basic</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>Acidic</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>Neutral</td> <td></td> <td></td> </tr> </tbody> </table>	Test solution	Nature of the solution	Change in colour of red litmus	Change in colour of blue litmus	B	Basic			C	Acidic			D	Neutral			
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B	Basic																	
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4.	Name the chemical present in calamine solution.	1																
5.	Name the acid used in car batteries.	1																
6.	Name the acid found in our stomach.	1																
7.	Name the base used in the manufacture of soap.	1																
8.	What makes lemon and vinegar sour in taste?	1																
9.	Why are acids not stored in metal containers?	1																
10.	Why should we be cautious while handling acid in the laboratory?	1																
11.	Why is a test tube warm after a neutralization reaction?	1																
12.	Dentists ask us to use toothpaste when we brush our teeth regularly. Why?	1																
13.	Turmeric stains on white clothes are yellow. Why do these stains turn red when they are washed with soap?	1																
14.	Why does a base applied to your skin give relief from an ant bite?	1																
15.	Due to overuse of chemical fertilizers, the soil in a farm has become acidic/basic and crop yields have dropped. What remedial action will you recommend to the farmer?	3																
16.	Describe two neutralisation reactions that we use in daily life.	3																



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