

**Class: VII**

**LAB ACTIVITY**

**Aim** – To test the nature of various substances with the litmus paper.

**Materials required** – Red and Blue litmus papers, test tubes, test tube stand, vinegar, baking soda solution, sodium hydroxide solution, hydrochloric acid solution.

**Procedure** – 1) Collect samples of the solutions mentioned above.  
2) Pour the solutions in four different test tubes.  
3) Dip both red and blue litmus papers in each test tube.  
4) Observe the changes in colour of litmus papers in each case.  
5) Record the observations.

**Observation** –

Test solution	Red litmus paper	Blue litmus paper	Nature
Vinegar	No change in colour	Turns into red	Acidic
Baking soda	Turns into blue	No change in colour	Basic
Sodium hydroxide	Turns into blue	No change in colour	Basic
Hydrochloric acid	No change in colour	Turns into red	Acidic

**Conclusion** – Vinegar and hydrochloric acid solutions are acidic.  
Baking soda solution and sodium hydroxide solution are basic.