

DETERMINE THE pH OF SOME SUBSTANCES

In this experiment, we will measure the pH of some common substances. We will do this with red cabbage juice and litmus paper.

In the following table, write the values of pH you determine for each substance, using red cabbage juice. Test a few with litmus paper.

SUBSTANCES	COLOR (red cabbage juice)	pH (litmus paper)
1. tap water		
2. lemon juice		
3. soda water		
4. vinegar		
5. distilled water		
6. baking soda (saturated solution)		
7. normal aspirin (1 tb in 20 ml of distilled water)		
8. buffered aspirin (1 tb in 20 ml of distilled water)		
9. soap		
10. Antacid		
11. Salt water		
12. Vitamin C		
13. Ammonia		

At the end of the measurements, compare some of the pH values with the litmus paper test.
Highlight the two more acidic substances.
Highlight the two more basic substances.

Observations:

Vinegar, lemon and soda are _____ substances, _____ pH.

Baking soda and ammonia are _____ substances, _____ pH.

Distilled water is a _____ substance, _____ pH.

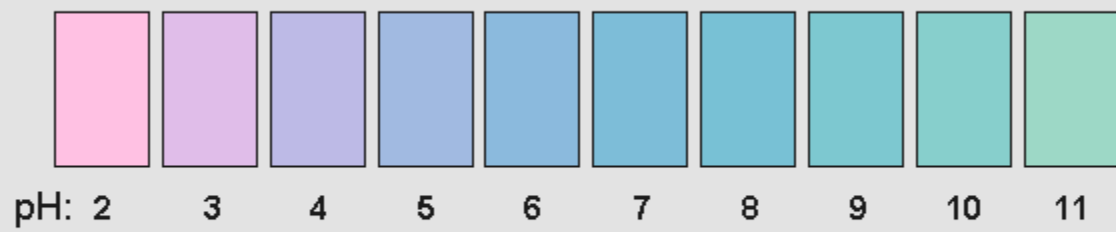


Figure 15 - Color scale of the red cabbage papers.

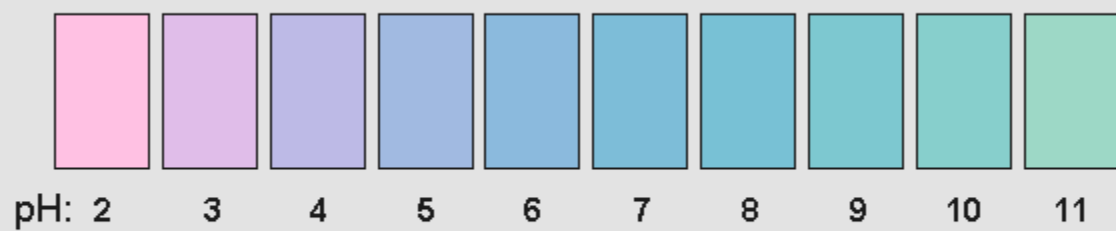


Figure 15 - Color scale of the red cabbage papers.