

Cabbage Juice Indicator - pH

LP _____ Date _____



Objectives:

- to test household solutions with litmus paper
- to test household solutions using red-cabbage juice indicator
- to classify household substances as acids or bases
- to determine the pH range of red cabbage juice

Materials: (per group or station)

- Beaker of Red Cabbage Juice
- Red and Blue Litmus Paper
- 6 Plastic cups
- Beakers of the following solutions: water, baking soda, vinegar, salt, sugar, lemon juice, soda, etc...
- Plastic spoon
- black marker

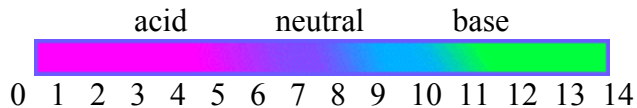
Procedure:

1. Label your plastic cups #'s 1-6
2. Choose one solution and pour a small amount into plastic cup #1.
3. Write the name of the solution in your data table.
4. Place a drop of the solution onto red and then blue litmus paper. Record results
5. Add 1 - 2 tablespoons of red cabbage juice to the cup. Record color change.
6. Determine if the solution is a acid, base or neutral
7. Repeat with solutions #2-6.
8. Clean up. Pour contents into sink and throw out used cups.

Data Table:

Plastic Cup #	Solution	Red Litmus	Blue Litmus	Red Cabbage Juice	Acid/Base or Neutral
1					
2					
3					
4					
5					
6					





How to read pH paper:

- Red** Litmus Paper – Stays **Red** = Acid or Neutral
Turns **Blue** = Base
- Blue** Litmus Paper – Stays **Blue** = Base or Neutral
Turns **Red** = Acid

Results:

1. Name the acids:

2. Name the bases:

3. Were there any neutral solutions?

4. What color did the cabbage juice turn to indicate an acid: _____
neutral _____ base _____?
5. Why is it important to use **both blue and red** litmus paper to determine pH?

Conclusion: 2-3 sentences on what you learned

