

Cabbage Juice Lab



Glue this side
down into your
science notebook.

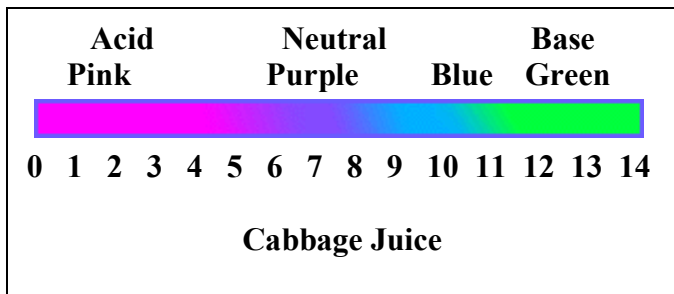
“A dot is a lot!”

Liz LaRosa
5th grade science
www.middleschoolscience.com
2010

Directions:

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 into your data table.
4. One at a time, dip the red and blue litmus paper into the solution.
5. Record results into your data table.
6. Add 1 - 2 tablespoons of red cabbage juice to the cup and swirl.
7. Record color change.
8. Determine if the solution is an acid, base or neutral
9. Repeat with solutions #2-6.
10. Clean up. Pour contents into sink and throw out used cups.

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



Analysis/Results:

1. Name the acids.
2. Name the bases.
3. Name the neutral solutions.
4. What color did the cabbage juice turn to indicate an acid? A base? Neutral?
5. Why is it important to use both blue and red litmus paper to determine pH?

Conclusion: 2 – 3 complete sentences on what you learned by doing this activity.

| Litmus | Acid | Neutral | Base |
|--------|------|---------|------|
| Red | Red | Red | Blue |
| Blue | Red | Blue | Blue |