



Cabbage Juice Indicator

What Do I Need

1. Red cabbage leaves
2. Knife
3. Chopping board
4. Boiling water
5. Measuring jug
6. White vinegar
7. Bicarbonate of Soda
8. Spoons or something for stirring
9. 3 glasses
10. A dropper if you have one or a teaspoon

What Do I Need to Know? - research before you start!

What are indicators?

What are alkalis?

What is neutral?

Safety precautions to take when working with boiling water, acids and alkalis

What Do I Do?

1. To get the colour out of the cabbage - chop the red cabbage into smaller pieces and then put into a measuring jug and add boiling water and stir for approximately 15 minutes (or add to saucepan and boil for approximately 10 minutes).
2. The liquid should turn a dark purple colour - the darker the better - leave to cool and then decant into a container.
3. Into one glass half fill with water (neutral), the second half fill with diluted vinegar (acid) and the third add some baking soda to water (alkali).
4. Using a dropper now add some of the cabbage juice to each of the glasses and record what happens.
5. Now try with other solutions...
 - lemon juice
 - cream of tartar • antacids
 - sparkling water • rain water
 - shampoo
 - and anything else you would like to try!
6. Remember to record your results!