

Maker
{Futures}



Red Cabbage Indicator Experiment

What you need:

- $\frac{1}{4}$ Red cabbage cut into small pieces
- Hot water
- Sieve
- 6 jars/glasses
- Various liquids to test like
 - Vinegar
 - Baking soda
 - Fairy liquid
 - Lemon juice

Red Cabbage Indicator

{Experiment}

Make a natural pH indicator from red cabbage and use it to test out how acidic or alkali things are!



What you need

- ¼ Red cabbage cut into small pieces
- Hot water
- Sieve
- 6 jars/glasses
- Various liquids to test like
 - Vinegar
 - Baking soda
 - Fairy liquid
 - Lemon juice
 - Coca cola

Experiment like a scientist:

- Carefully cut the **red cabbage** into small pieces, place in a jug and pour **hot water** over it to cover the leaves.
- Leave this for a few minutes until the water has turned **purple**.
- **Sieve** out the cabbage leaving only the purple liquid. This is your **indicator**, it is neutral in pH.
- Pour a small amount of the purple liquid into 6 clear jars for testing.
- Now add a small amount of one **test liquid** to each jar. Leave one jar with just the indicator in for reference.
- Watch as the indicator **changes colour**.



- Do you notice a **pattern**?
- Can you arrange the coloured liquid into a **scale**?
- Which side do you think is **acidic** and which **alkali**?

{How it works}

The chemical that gives red cabbage its colour makes a great indicator. Indicators tell us whether a substance is acidic or alkali by changing colour.