

Red Cabbage Indicator

The Science Behind the Experiment - A Guide for Adults

The cabbage water is a pH indicator – it has one colour when added to an acidic liquid and another when added to an alkaline liquid. The lemon juice is acidic (a low pH number), the water is pH neutral (around pH7) and the bicarbonate of soda mixture is alkaline (a high pH number).

Science Experiment

Red Cabbage Indicator

What colour is the red cabbage water?

What happens when the red cabbage water is mixed with lemon juice?

What happens when the red cabbage water is mixed with water?

What happens when the red cabbage water is mixed with bicarbonate of soda?

pH scale using red cabbage indicator:

