



Worksheet 7.3 Universal Indicator

1 Complete the table.

Substance	Colour with Universal Indicator	pH	Type of substance
hydrochloric acid	red	1	strongly acidic
lemon juice		5	
water			
toothpaste	blue		
sodium hydroxide			strongly alkaline
lemonade	yellow		
soap solution			weakly alkaline
floor cleaner		10	
salt water	green		

2 Explain why Universal Indicator is more useful than litmus.

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3 Make your own colour chart to show the colours that Universal Indicator turns in solutions of different pH.

You could do this by arranging different coloured pieces of paper in the correct order, starting with the colour that Universal Indicator turns in a solution of pH 1. You could also use ordinary paper and paint or colour it yourself.

Try to make it interesting. You can cut out different coloured pieces of paper like T-shirts on a washing line or race cars on a track. You can do this on a large piece of paper so it can go on the wall of your classroom. On each item, write the pH that the colour represents and state if this pH means strong acid, weak acid, neutral, weak alkali or strong alkali.