

# Acids and Alkalis

# Quiz on acids and alkalis

*Acid, alkali or both???*

- 1) This a pH of less than 7
- 2) This could kill cells
- 3) This is often used in cleaners or soap
- 4) This would turn Universal Indicator red
- 5) Sodium hydroxide is a common \_\_\_\_\_
- 6) This would feel soapy on your skin
- 7) This could be a corrosive
- 8) This will turn universal indicator purple
- 9) This would taste sour
- 10) Lemon juice and vinegar are examples of weak \_\_\_\_\_

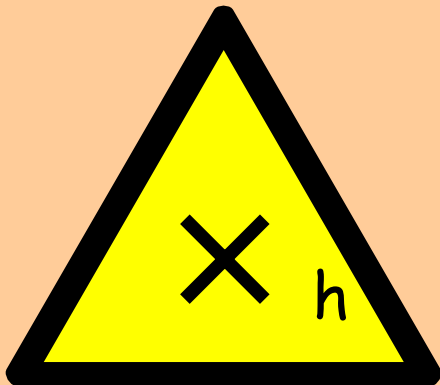
# Hazard signs to learn...



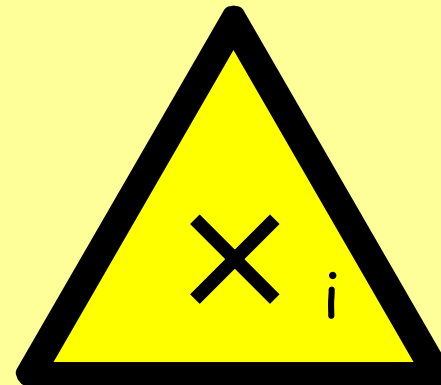
Acid



Corrosive



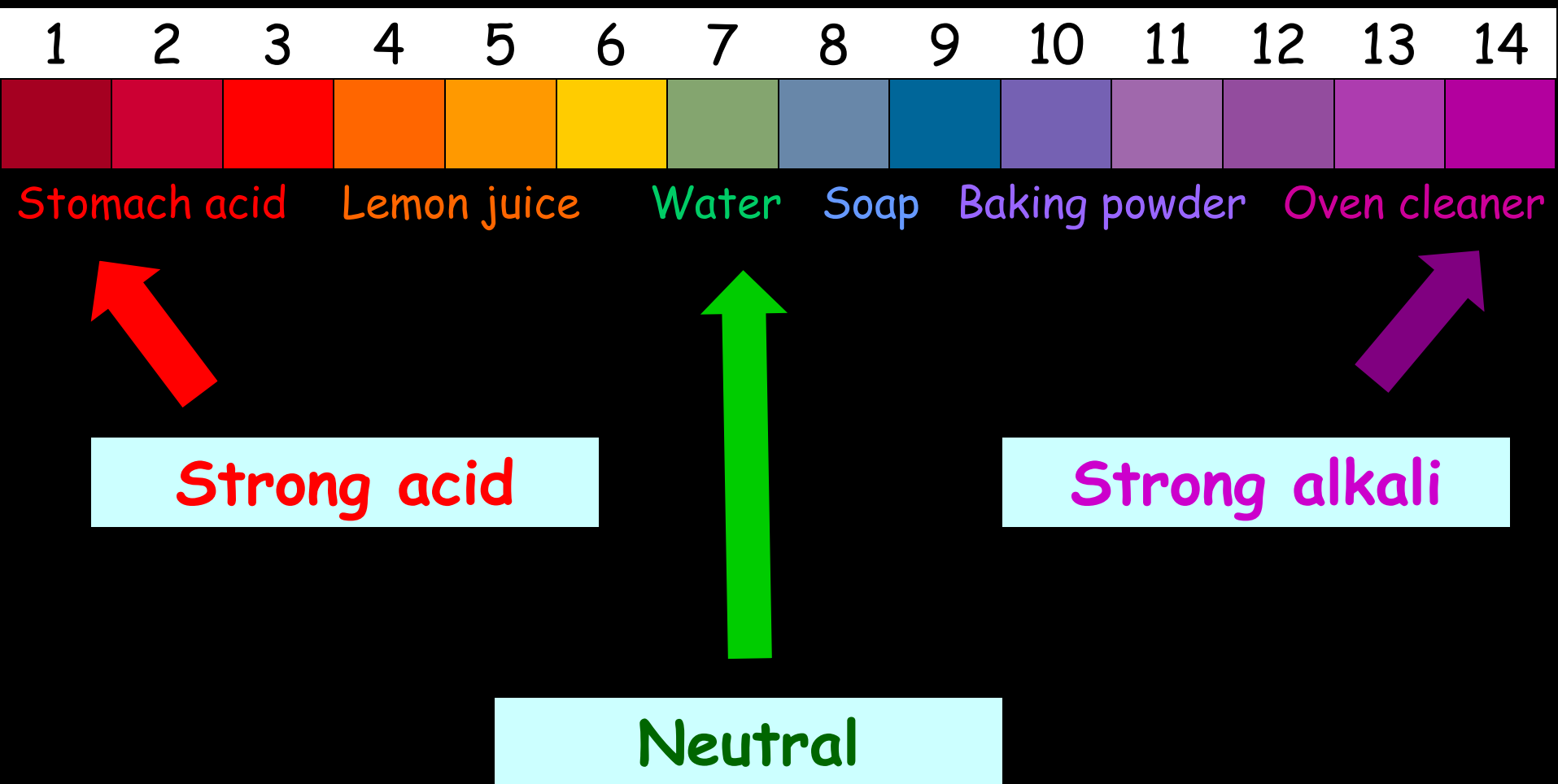
Harmful



Irritant

# Universal Indicator and the pH scale

Universal Indicator is a mixture of liquids that will produce a range of colours to show how strong the acid or alkali is:



# Neutralisation

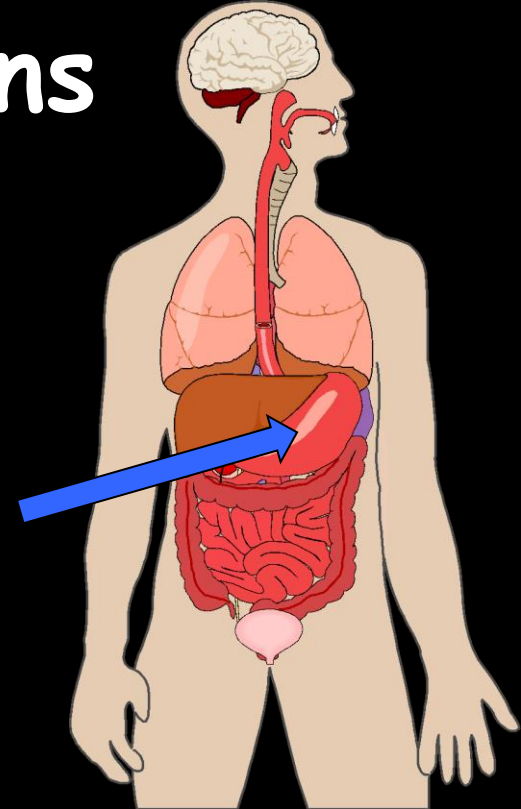
An acid and alkali will neutralise each other (if the correct amounts are used):



E.g. hydrochloric acid + sodium hydroxide  $\longrightarrow$  sodium chloride + water

# Useful acid-alkali reactions

1) Hydrochloric acid is used in the stomach to help \_\_\_\_\_. If we eat too many "rich" foods our stomachs create too much \_\_\_\_\_ - this is called \_\_\_\_\_. This acid needs to be neutralised by taking indigestion tablets.



2) Soil is naturally acidic, mainly due to acid \_\_\_\_\_. This can have bad effects on \_\_\_\_\_ and vegetable growth, so the excess acid may need to be neutralised with an \_\_\_\_\_ or suitable fertiliser.

*Words - plant, digestion, indigestion, alkali, rain, acid*