

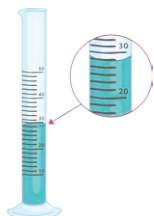
# Acids and Alkalis

## Exam Style Questions 2

1. A group of pupils decide they want to test some household solutions to find out their pH. They decide to use blackberries to make their indicator. They have the following equipment available to them.



beaker



measuring cylinder



mortar and pestle



filter funnel

- What is an indicator? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Describe how the pupils would make their blackberry indicator. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- After making the indicator, they tested it on a range of household solutions, their results are shown below.

Household Solution	Colour Of Indicator	Acid, Alkali Or Neutral
vinegar	bright pink	
baking soda	dark green	
milk	light purple	

Complete the table to state whether the solution was an acid, alkali or neutral solution.

- Indigestion tablets neutralise acid in the stomach. What does this tell you about indigestion tablets? \_\_\_\_\_  
\_\_\_\_\_

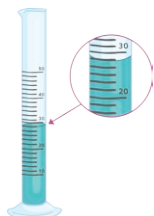
# Acids and Alkalis

## Exam Style Questions 2 Answers

1. A group of pupils decide they want to test some household solutions to find out their pH. They decide to use blackberries to make their indicator. They have the following equipment available to them.



beaker



measuring cylinder



mortar and pestle



filter funnel

- What is an indicator? **An indicator changes colour when added to different solutions enabling the pH of the solution to be determined.**
- Describe how the pupils would make their blackberry indicator. **Crush the blackberries, using the mortar and pestle and filter the solution using the filter funnel and paper. Collect the juice in the beaker, using this as the indicator and any seeds should be collected on the filter paper.**
- After making the indicator, they tested it on a range of household solutions, their results are shown below.

Household Solution	Colour Of Indicator	Acid, Alkali Or Neutral
vinegar	bright pink	acid
baking soda	dark green	alkali
milk	light purple	alkali

Complete the table to state whether the solution was an acid, alkali or neutral solution.

- Indigestion tablets neutralise acid in the stomach. What does this tell you about indigestion tablets? **Indigestion Tablets are alkaline and therefore help neutralise the stomach acid.**