

Name:

Class:



The table below shows the colour of universal indicator in acidic, neutral and alkaline solutions.

	← acidic			neutral	alkaline →		
colour of indicator	red	orange	yellow	green	blue	dark blue	purple

A student tested different liquids with the indicator solution. Her results are shown below.

Liquid	Colour of indicator solution
Milk	Green
Lemonade	Orange
Water	Green
Fruit juice	Red
Washing up liquid	Blue

Use the student's results to answer the following questions.

- i. Give the name of **one** acidic liquid in the second table.

Either fruit juice or lemonade

- ii. Give the name of **one** neutral liquid in the second table.

Water or milk

- iii. The student dissolved some bicarbonate of soda in distilled water. This produced an alkaline solution. The student added the indicator to the alkaline solution.

Suggest what colour the indicator became.

Use the first table to help you.

Either blue or purple

Give the formula of ammonia.

NH₃

Give the formula of sulfuric acid.

H₂SO₄

Describe the arrangement and movement of particles in a liquid.

The particles are close together and touching, but they are arranged randomly.

They have enough energy to move around and slide past one another.

Name the process when a gas turns into a liquid.

Condensation.