

Name:

Class:



Describe a test to show that a gas is chlorine?

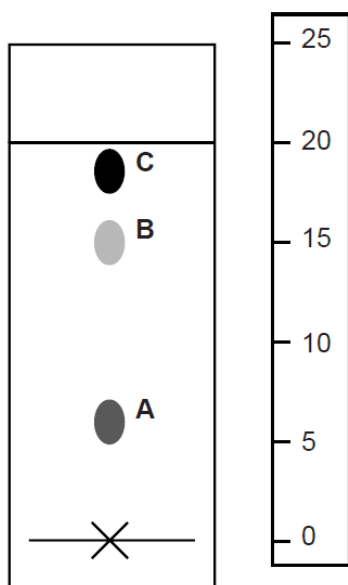
Test: Moist/ damp blue litmus paper.**Result:** chlorine will turn damp blue litmus paper turn red, and then bleaches it white.

Describe a test to show that a gas is ammonia.

Test: Moist/ damp red litmus paper.**Result:** ammonia will turn damp red litmus paper blue.

A student does a chromatography experiment using the ink from her pen.

She makes an ink dot on the paper, and then puts the bottom of the paper into a dish of water. She gets this pattern.



i. How many colours are in the ink?

3ii. Calculate the R_f value for spot B.

Show your working.

$$R_f = \frac{\text{distance moved by solute}}{\text{distance moved by solvent}} \quad R_f = \frac{15}{20}$$

R_f for Spot B = **0.75** Working must be shown.

iii. Why is the starting line drawn in pencil?

Pencil is insoluble in water so will not run and affect the result.

Give the formula of sodium hydroxide.

NaOH

Give the formula of sulfuric acid.

H₂SO₄

Identify the following piece of apparatus.

**Evaporation dish**

Give the symbols of the following elements.

He	K
Helium	Potassium

What is sublimation?

The direct change of a solid to a gas, skipping the liquid stage.What's the formula for the compound made from calcium ions (**Ca²⁺**) and hydroxide ions (**OH⁻**).**Ca(OH)₂**