

Name:

Class:



Describe a test to show that a gas is carbon dioxide.

Test: bubble the gas through limewater.

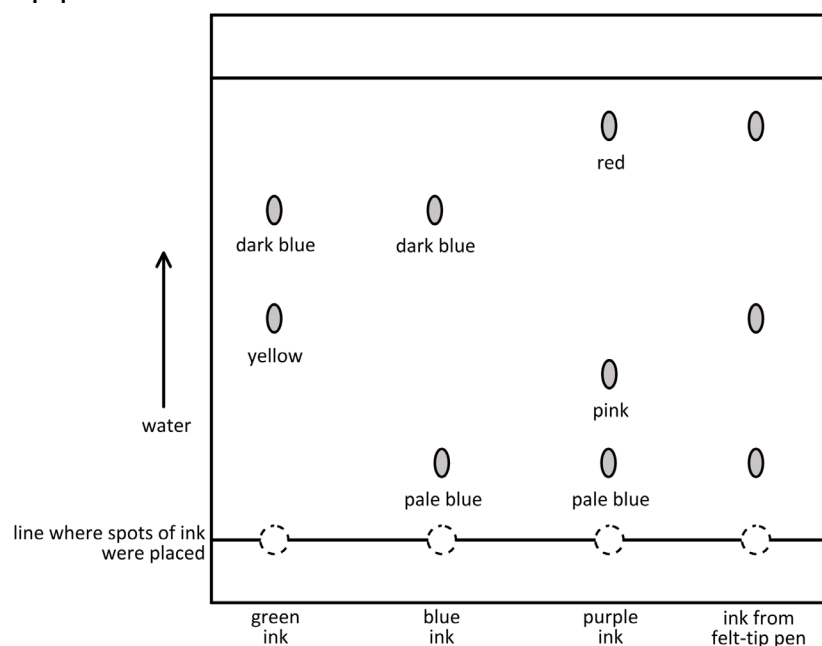
Result: the limewater will turn cloudy if carbon dioxide is present.

Describe a test to show that a gas is chlorine.

Test: moist/ damp blue litmus paper.

Result: the damp blue litmus paper will turn red and is then bleached white.

A student used chromatography to identify the coloured substances in the ink from a felt-tip pen.



i. Which colours were present in the ink from the felt-tip pen?

Pale blue, yellow and red.

ii. How many coloured substances were there in green ink? **2**

iii. How can you tell? **There are two colour dots above the green ink.**

The student placed the spots of ink on a line on the chromatography paper as shown in the diagram. To draw the line, the student had to choose a felt-tip pen or a pencil.

i. Which one should he use?

Pencil

ii. Give the reason for your answer.

Pencil is insoluble in water therefore it will not run along the paper and affect the result of the experiment.

Magnesium is more reactive than copper. If you add magnesium to copper sulfate solution, will a reaction happen?

Yes – magnesium will displace copper from copper sulfate.