# AQA - Chemical Changes - GCSE Chemistry

1.	May/2020/Paper_8462/1F/No.1.4 Why did the teacher do the investigation in a fume cupboard?	<b>M</b>
	Tick (✓) one box.	[1 mark]
	Chlorine gas is coloured.	
	Chlorine gas is flammable.	
	Chlorine gas is toxic.	
2.	May/2020/Paper_8462/1F/No.1.5 The word equation for the reaction is:	
	iron + chlorine $\rightarrow$ iron chloride	
	Iron chloride is a solid.	
	The teacher weighed the glass tube and contents:	
	before the reaction	
	after the reaction.	
	What happened to the mass of the glass tube and contents during the reactio	n?
	Give one reason for your answer.	
		2 marks]
	The mass of the glass tube and contents	·
	Reason	

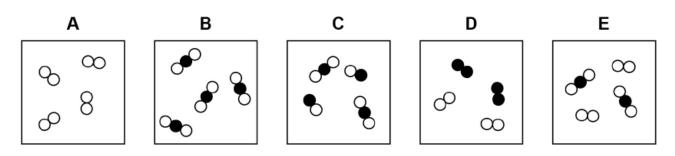
### **3.** May/2019/Paper\_8462/1F/No.3

This question is about elements, compounds and mixtures.

Figure 5 shows five different substances, A, B, C, D and E.

○ and • represent atoms of different elements.

Figure 5



Use Figure 5 to answer Questions 03.1 to 03.3

Which substance is only one compound?

[1 mark]

Tick (✓) one box.

Which substance is a mixture of elements?

[1 mark]

Tick  $(\checkmark)$  one box.

Which substance is a mixture of an element and a compound?

[1 mark]

Tick  $(\checkmark)$  one box.

#### solvedpapers.co.uk

Substances are separated from a mixture using different methods.

Draw **one** line from each method of separation to the substance and mixture it would separate.

[2 marks]

# Method of separation

## Substance and mixture

blue food colour from a

mixture of food colours

chromatography

copper from an alloy of copper and zinc

copper sulfate from copper sulfate solution

crystallisation

ethanol from a mixture of ethanol and water

#### solvedpapers.co.uk

Sand does not dissolve in water. A student separates a mixture of sand and water by filtration.

Draw a diagram of the apparatus the student could use.

You should label:

- · where the sand is collected
- · where the water is collected.

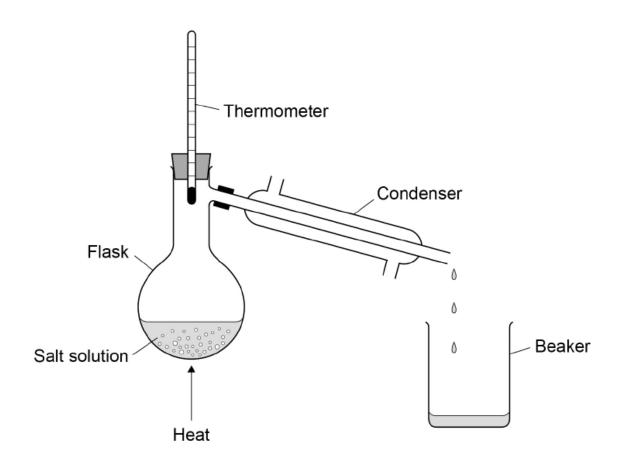
[3 marks]

Diagram

A student distils a sample of salt solution to produce pure water.

Figure 6 shows the apparatus.

Figure 6



What temperature would you expect the thermometer to show?

[1 mark]

Tick  $(\checkmark)$  one box.

0 °C	
10 °C	
50 °C	
100 °C	

## solvedpapers.co.uk

t solution.		
[4 ma	arks]	