

Paper Reference(s) 1CH0/1F  
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Chemistry  
PAPER 1  
Foundation Tier

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

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## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

**THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

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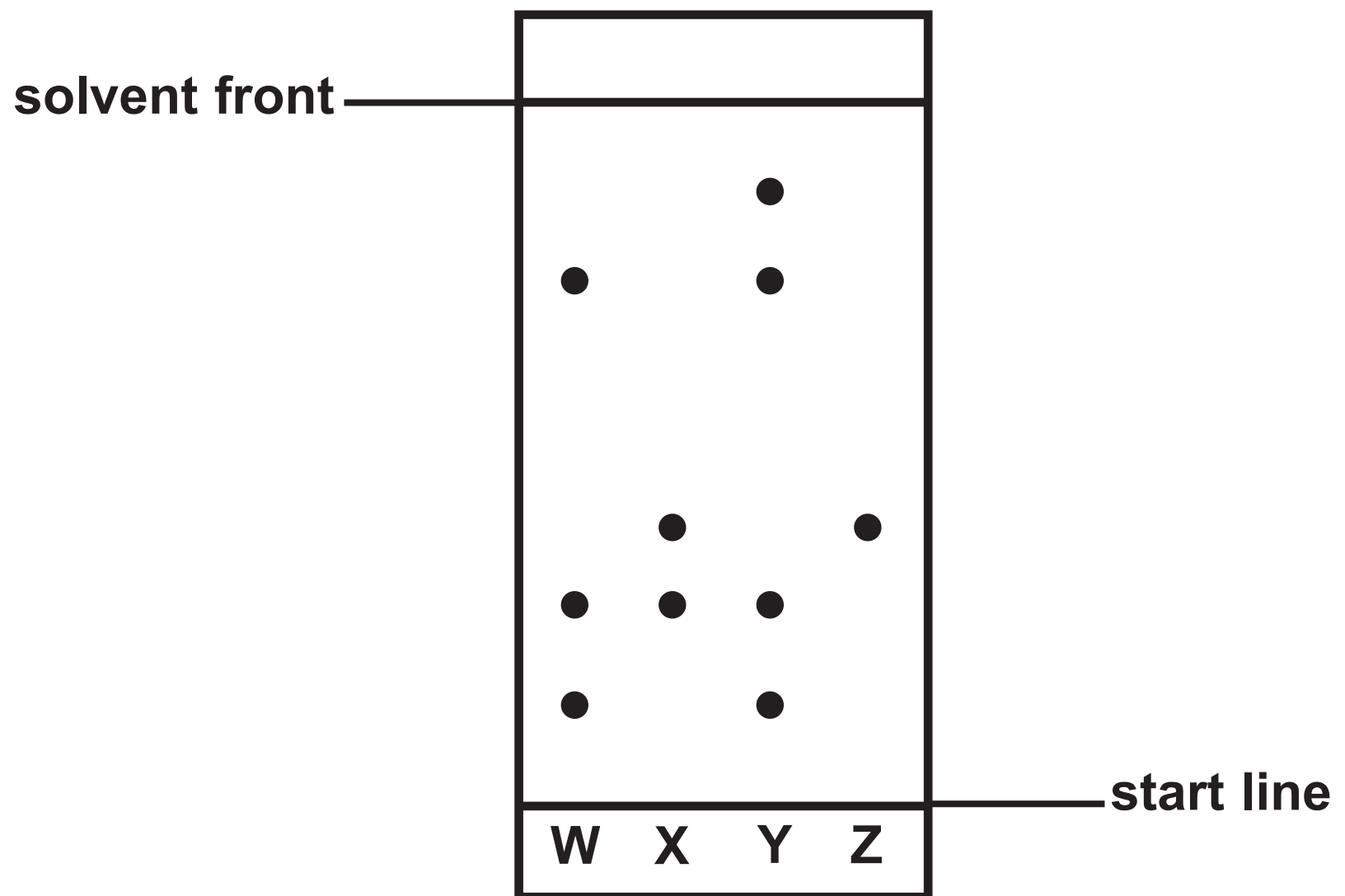
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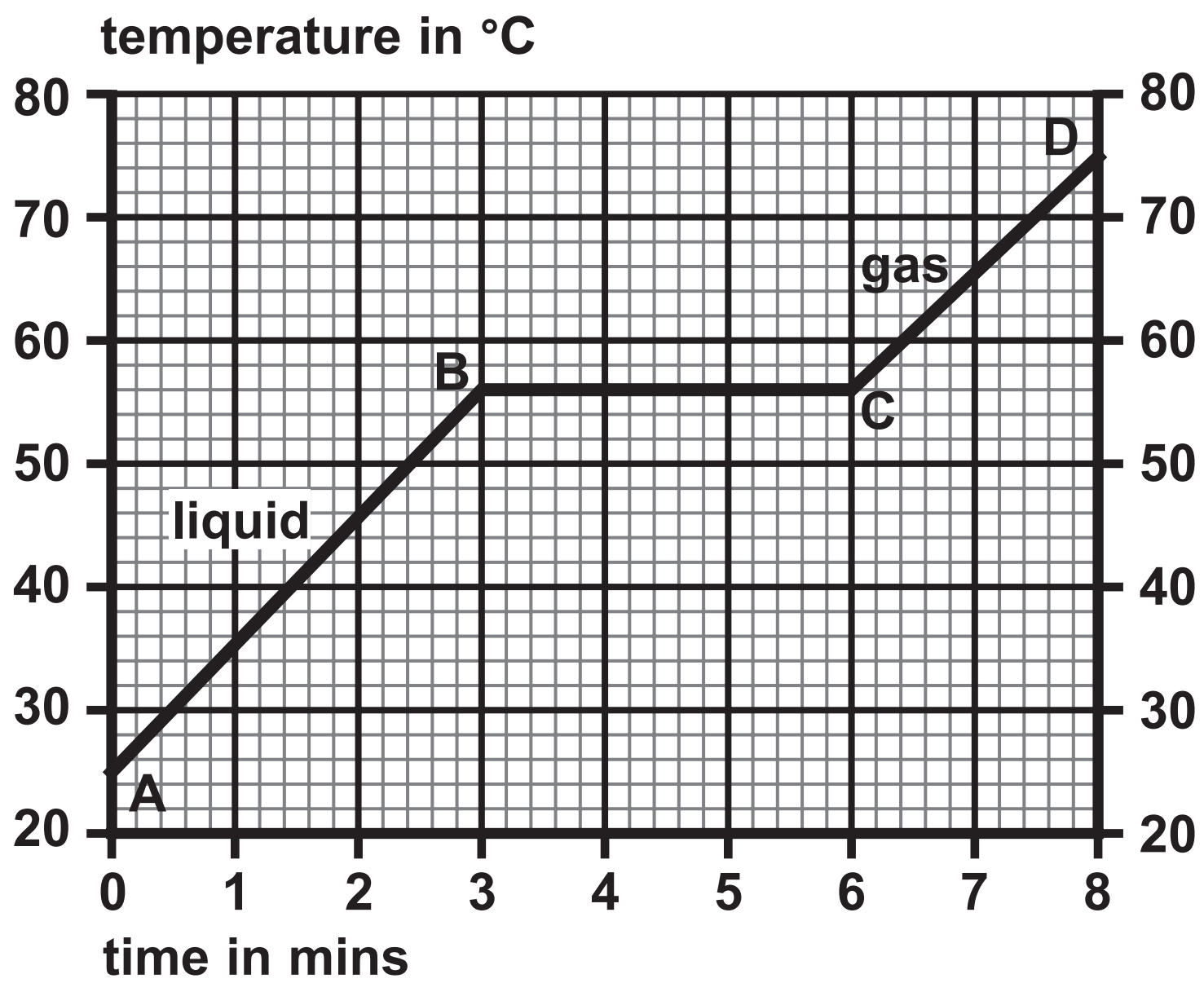
## Question 1(a)

FIGURE 1



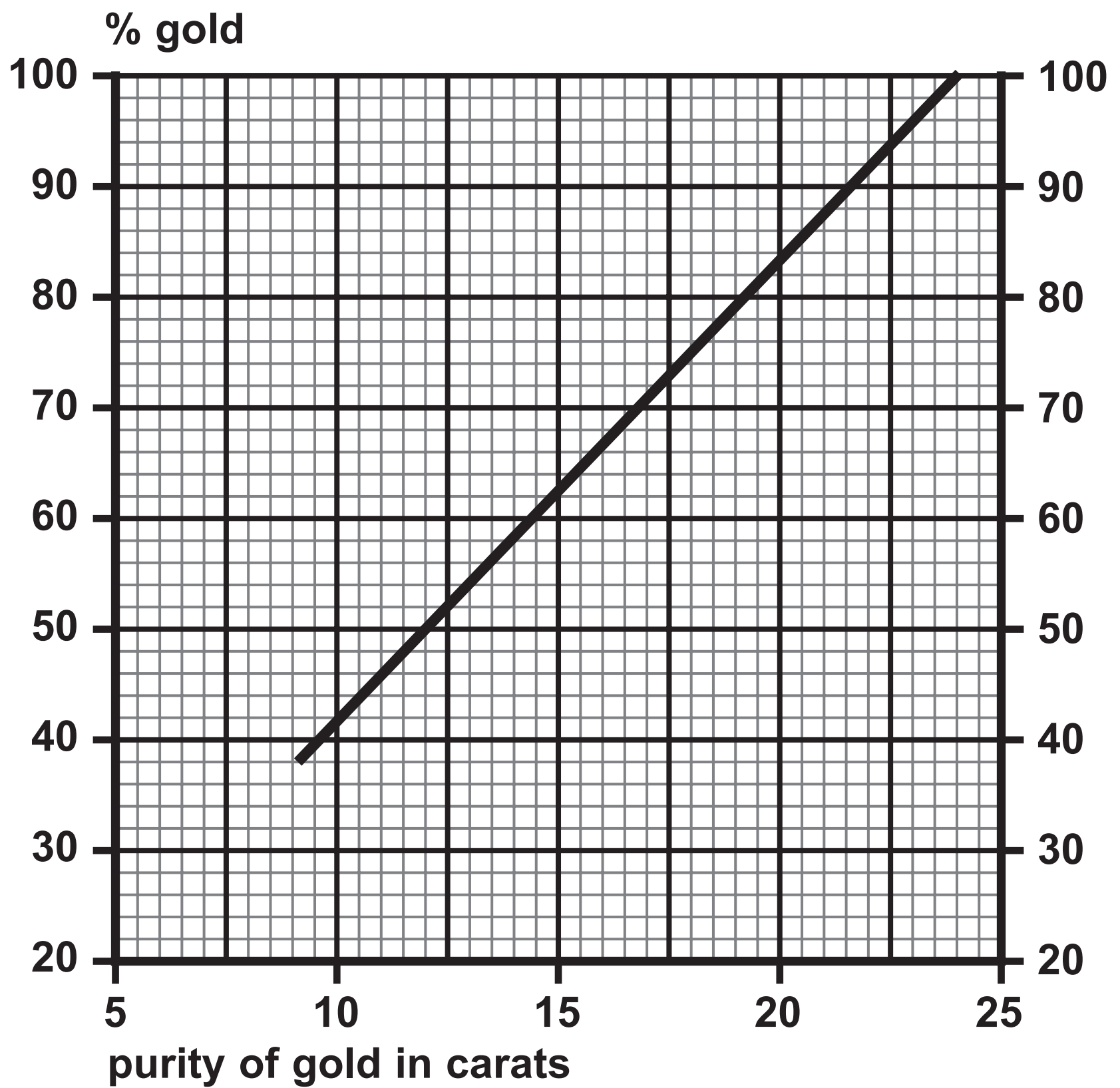
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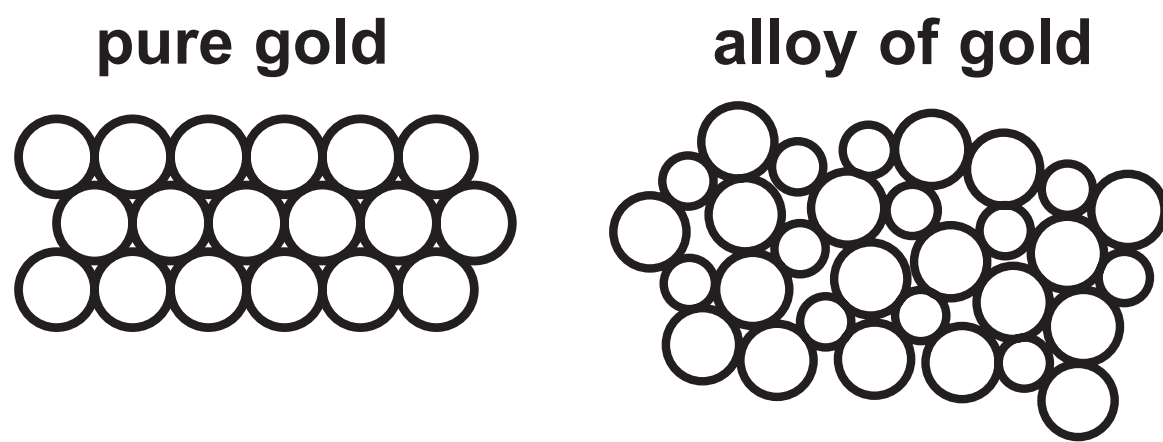
FIGURE 2



## Question 2(a)

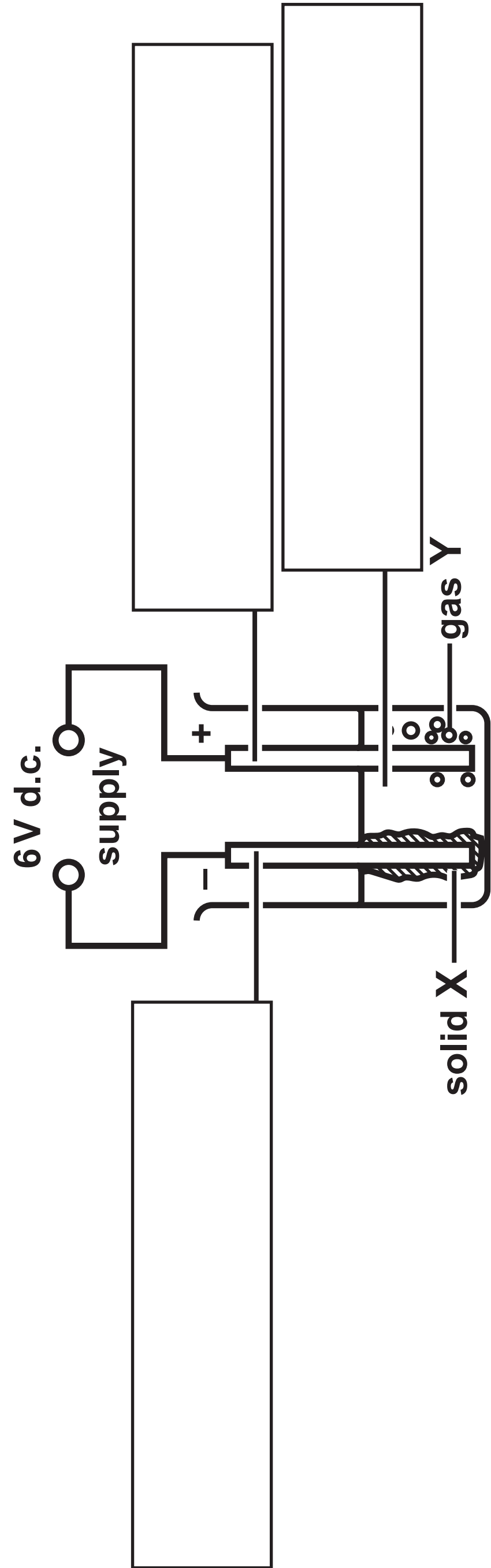
FIGURE 3



**Question 2(b)****FIGURE 4**

List of words:  
anode  
cathode  
electrolyte

FIGURE 5





Question 3(b)(ii)

product

solid X

gas Y

name

carbon

chlorine

copper

hydrogen

Question 4(c)

FIGURE 6

element	percentage of element in steel	
	steel with low resistance to corrosion	steel with high resistance to corrosion
iron	98·2	80·6
carbon	0·4	1·1
chromium	0·0	17·0
manganese	0·9	0·8
nickel	0·5	0·5

Question 5(a)(ii)

☐

A

☐

B

☐

C

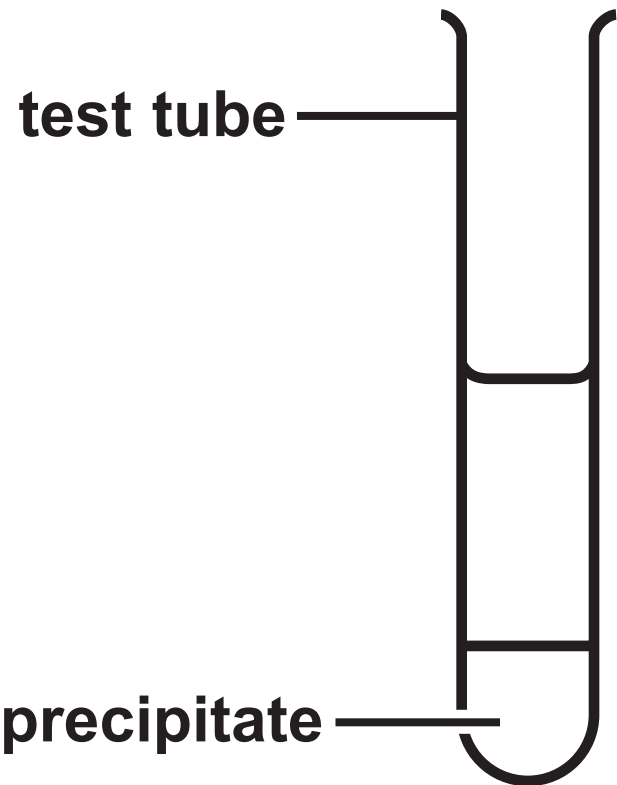
☐

D



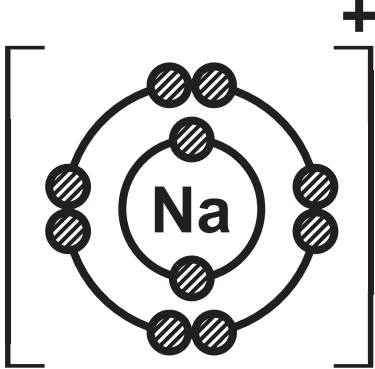
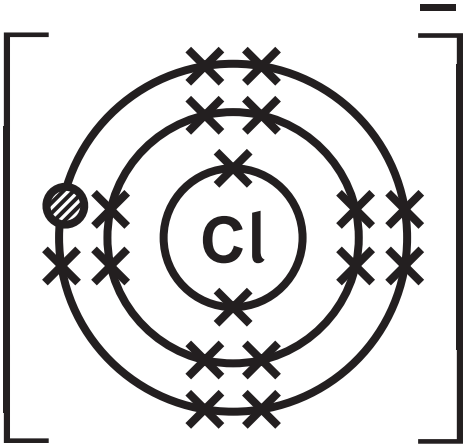
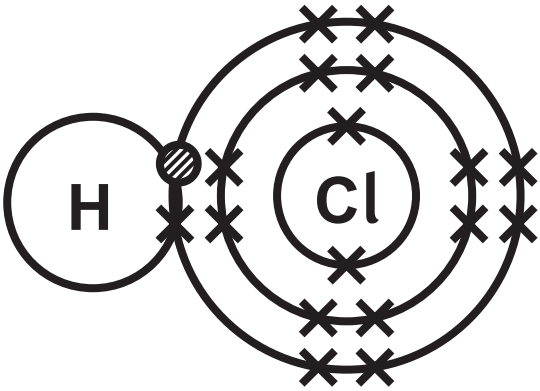
Question 5(b)(i)

FIGURE 7



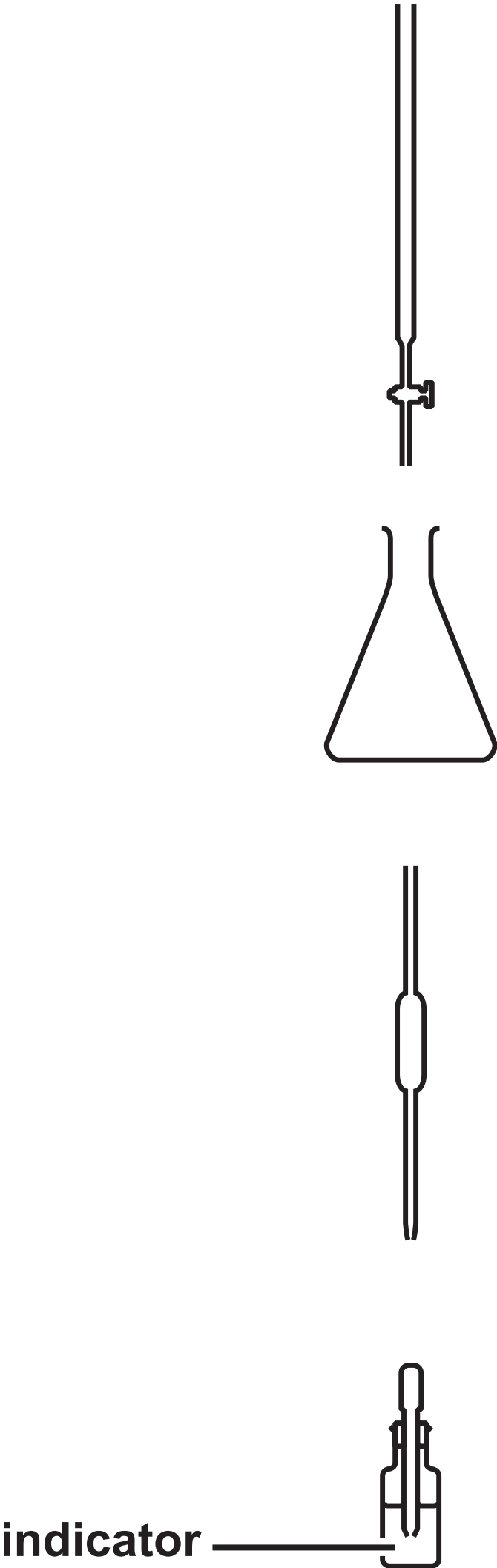
Question 6(d)

FIGURE 9

sodium chloride (ionic bonding)	hydrogen chloride (covalent bonding)
<div><div><p>sodium ion</p></div><div><p>chloride ion</p></div></div>	<div></div>

Question 7(c)

FIGURE 11



Question 8(c)

☐

A

calcium hydroxide	hydrochloric acid
aq	l
l	aq
s	aq
s	l

☐

B

☐

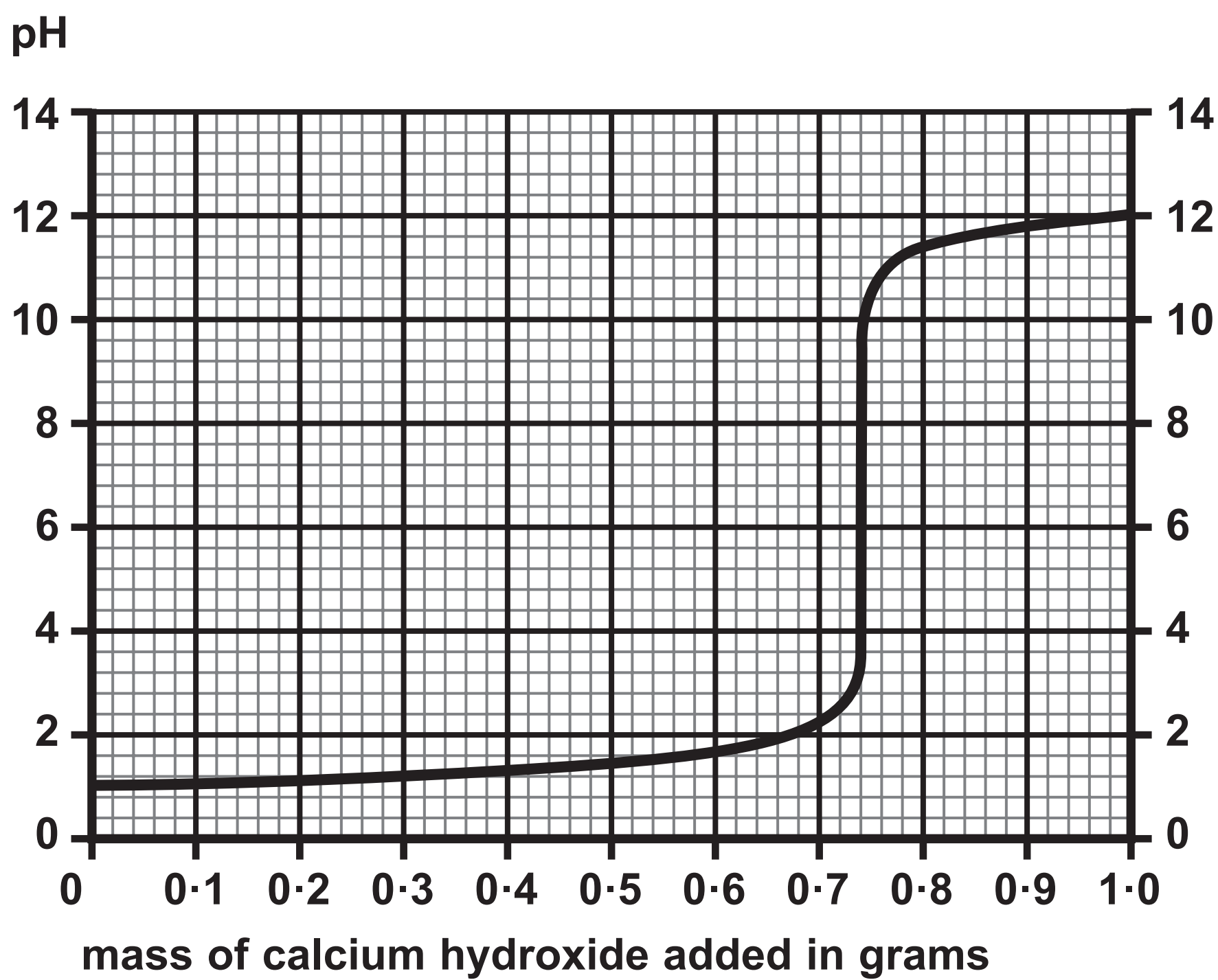
C

☐

D

## Question 8(d)

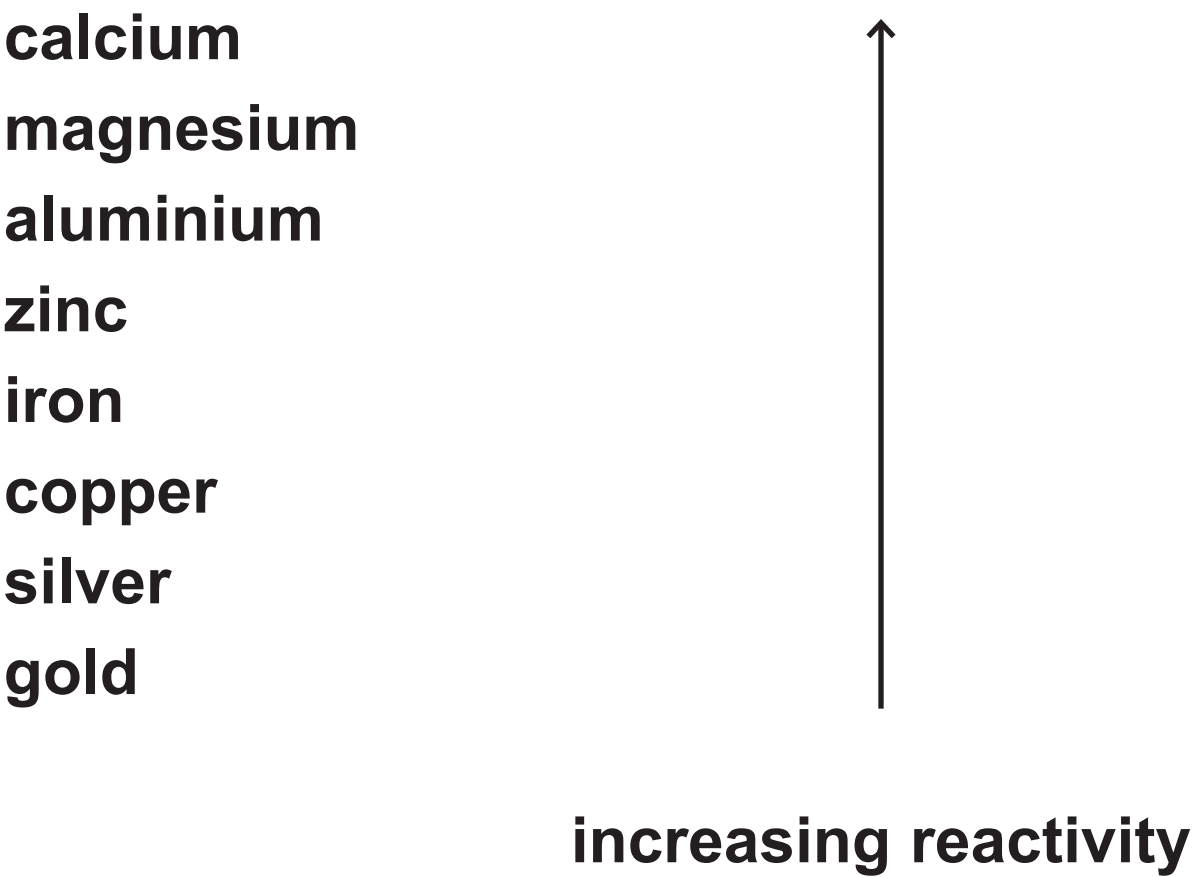
FIGURE 12





Question 9(a)

FIGURE 13



Question 9(b)

FIGURE 14

metal	observations
magnesium	
zinc	bubbles produced at a steady rate test tube feels slightly warm
iron	
copper	no reaction

Question 10(b)

☐ A

☐ B

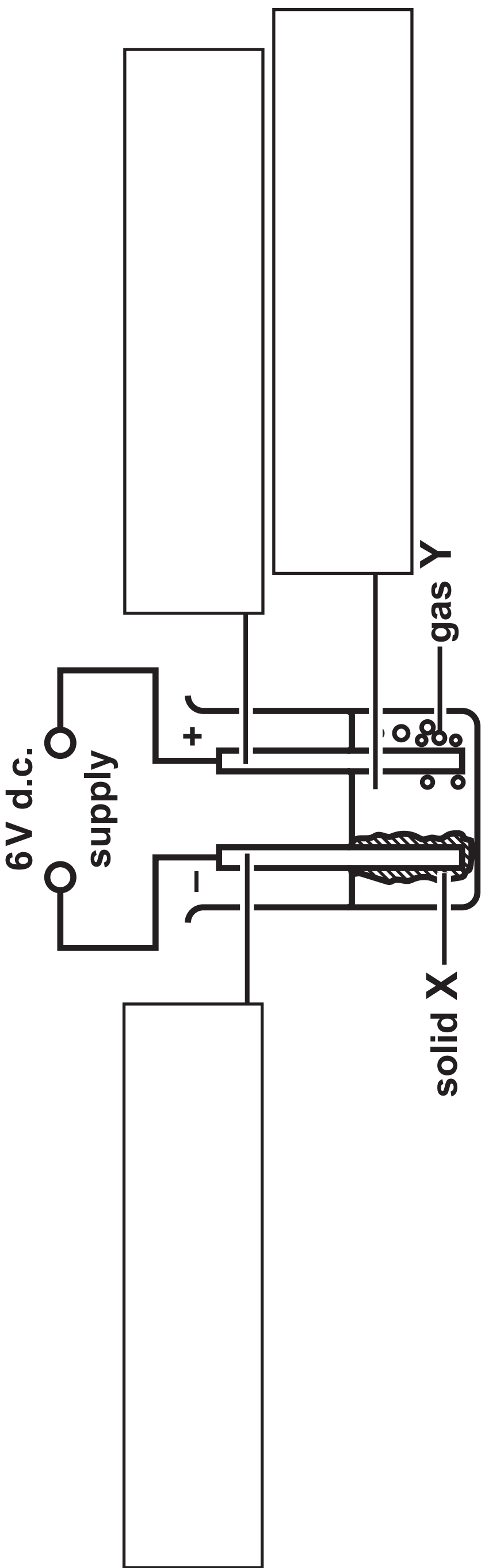
☐ C

☐ D

melting point of vanadium in °C	colour of vanadium oxide
50	white
1910	white
50	orange
1910	orange

FIGURE 5

anode  
cathode  
electrolyte



Question 3(b)(ii)

product

solid X

gas Y

name

carbon

chlorine

copper

hydrogen