

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.

Surname					
Other names					
Centre Number					
Candidate Number					

## 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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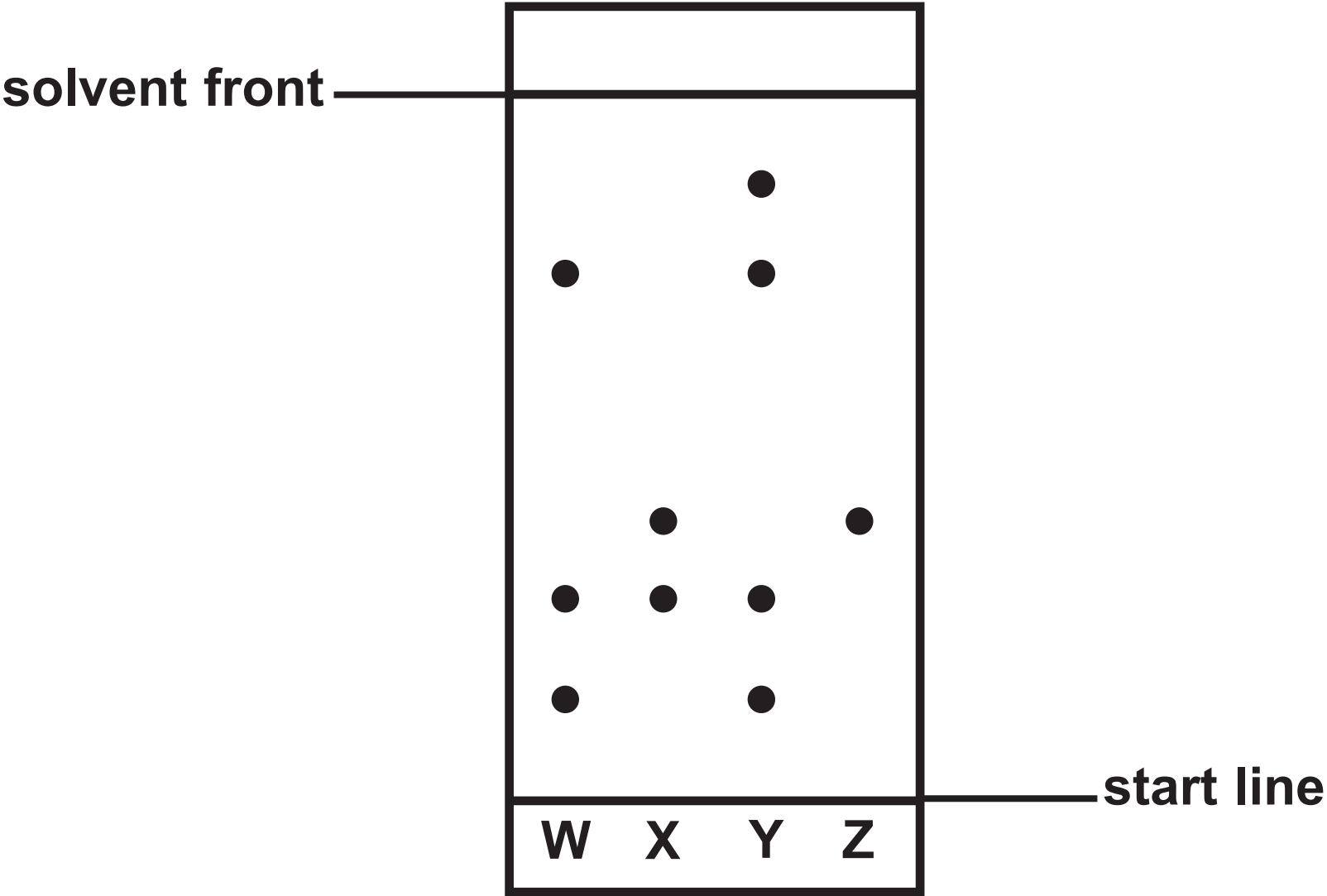
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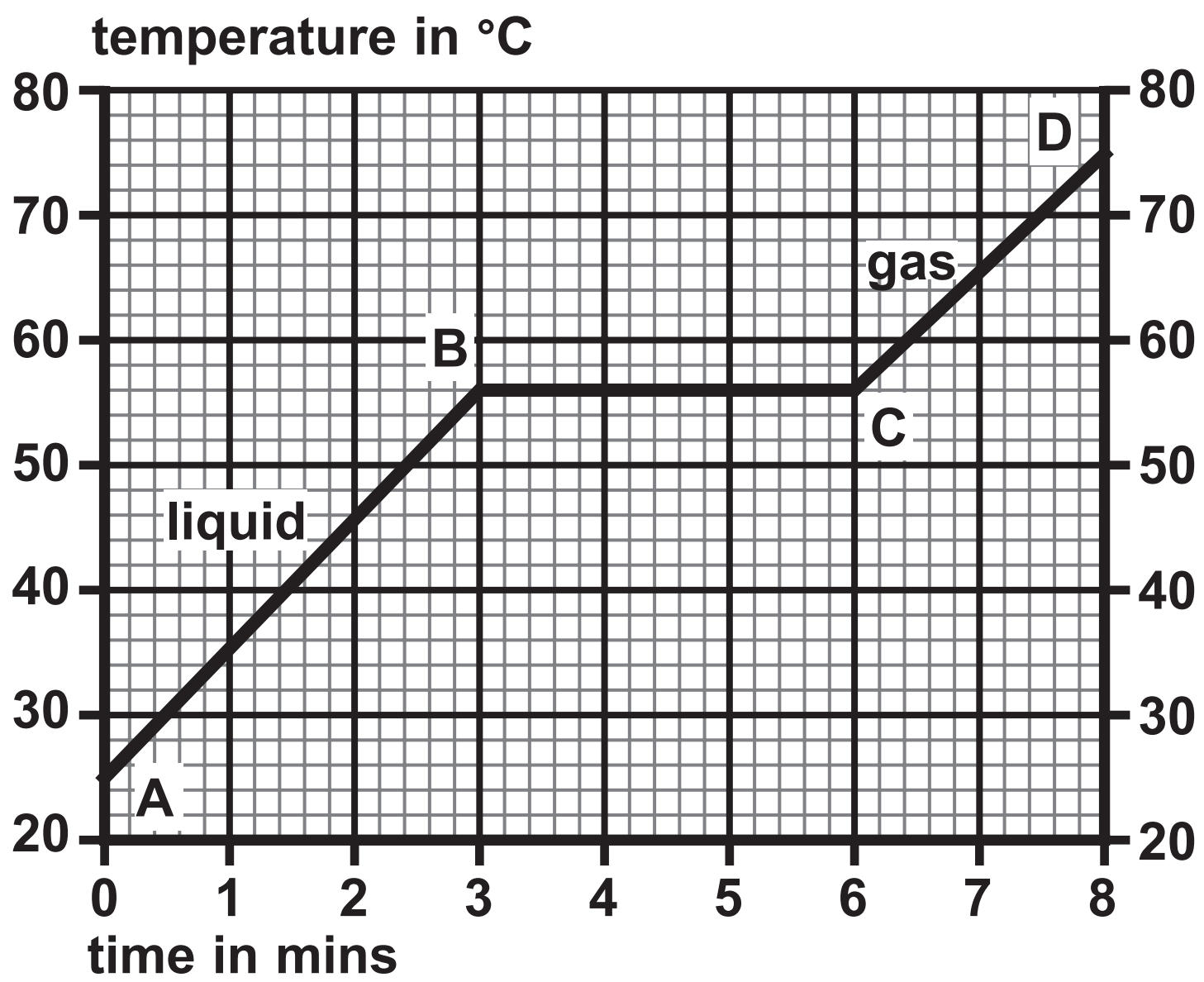
Question 1(a)

FIGURE 1



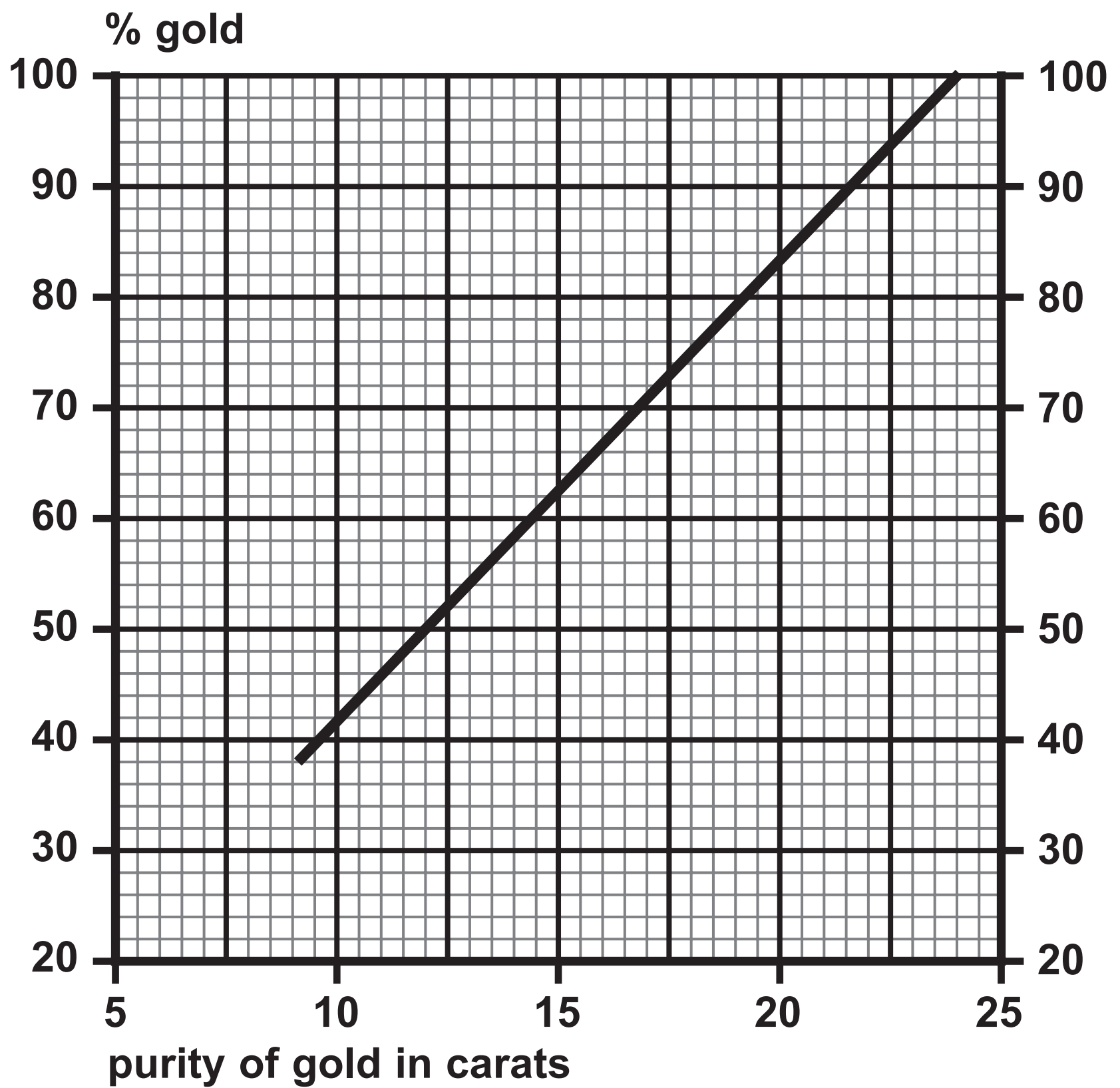
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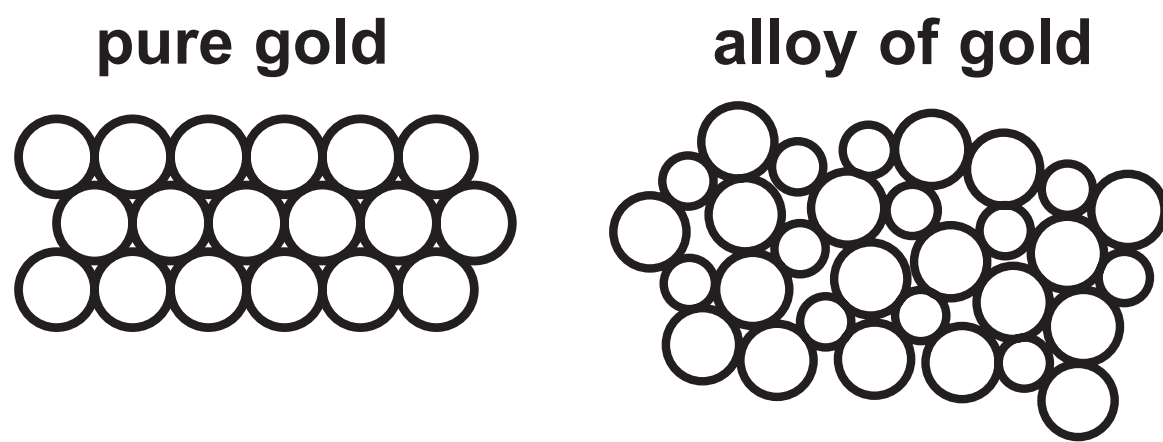
FIGURE 2



## Question 2(a)

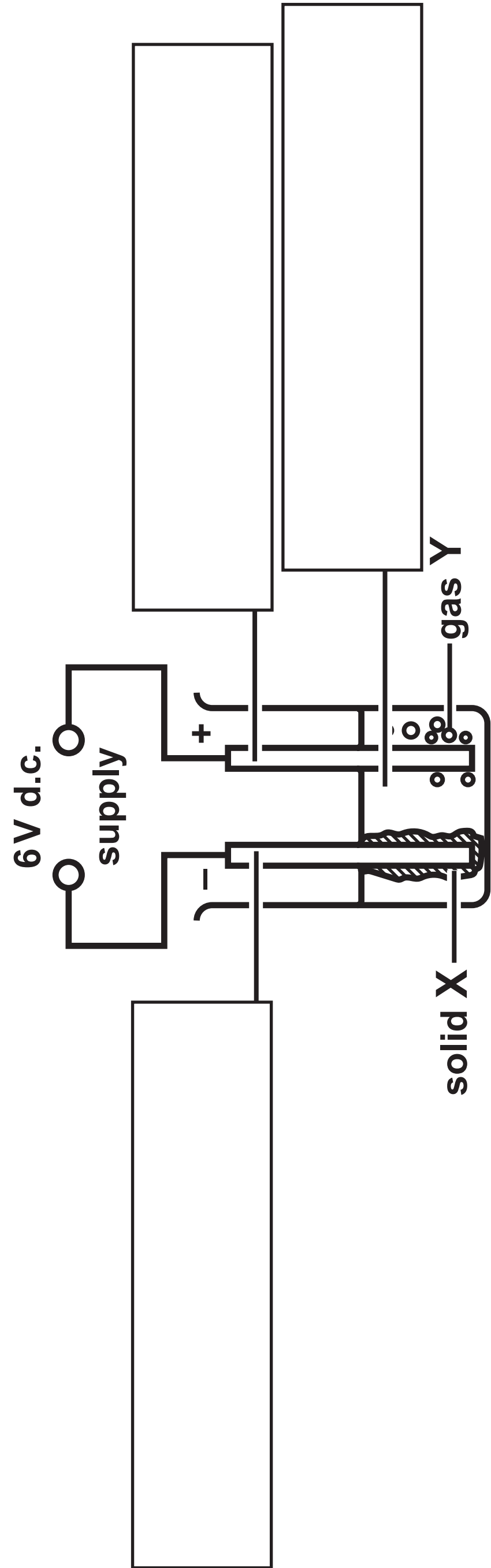
FIGURE 3



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

List of words:  
anode  
cathode  
electrolyte

FIGURE 5





Question 3(b)(ii)

product

name

solid X

carbon

chlorine

copper

gas Y

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

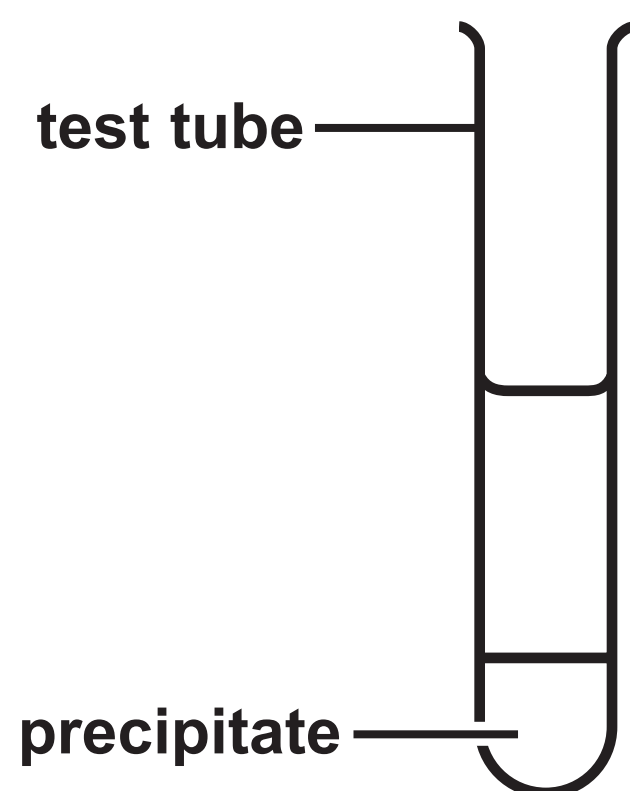
☐

C

☐

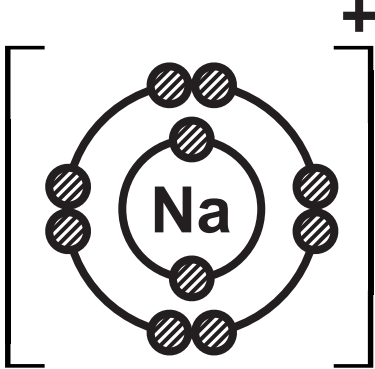
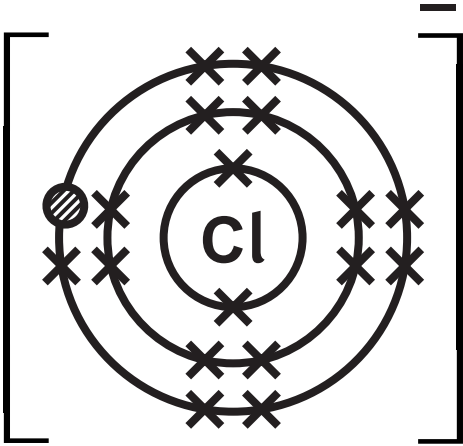
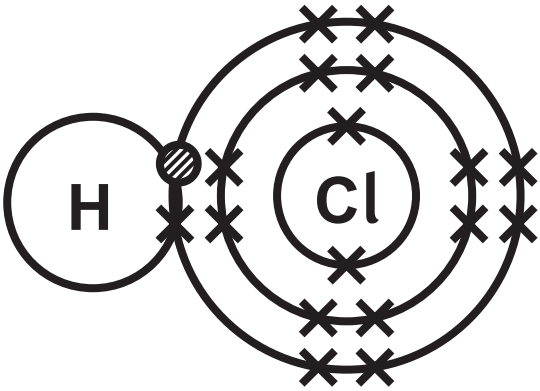
D



**Question 5(b)(i)****FIGURE 7**

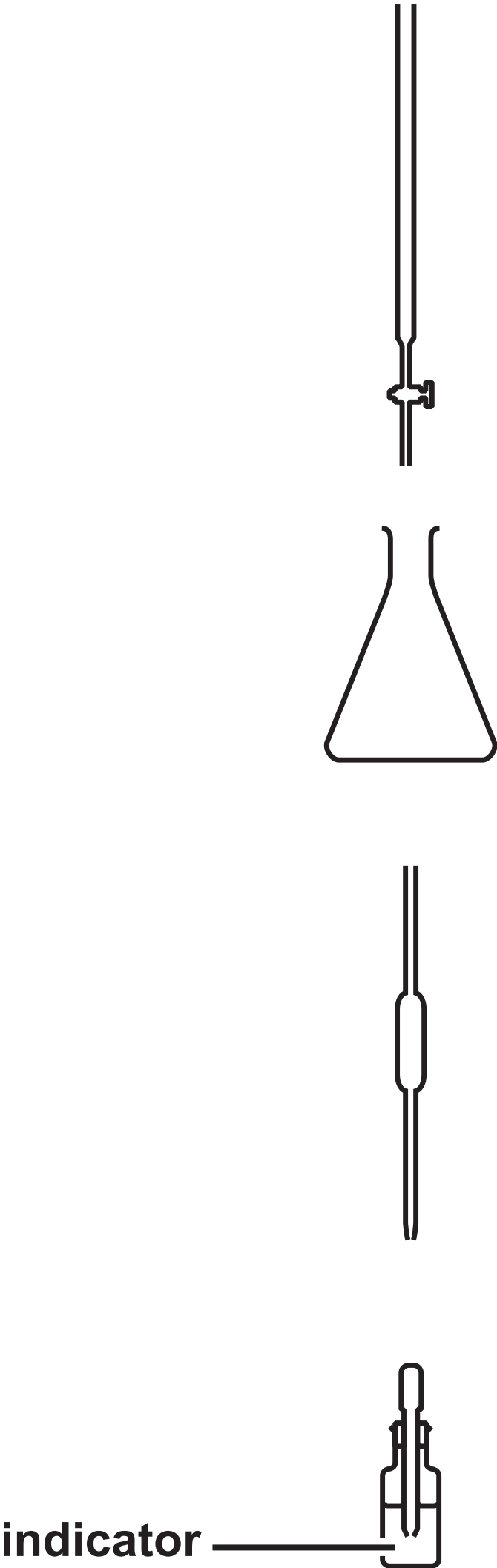
Question 6(d)

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

☐

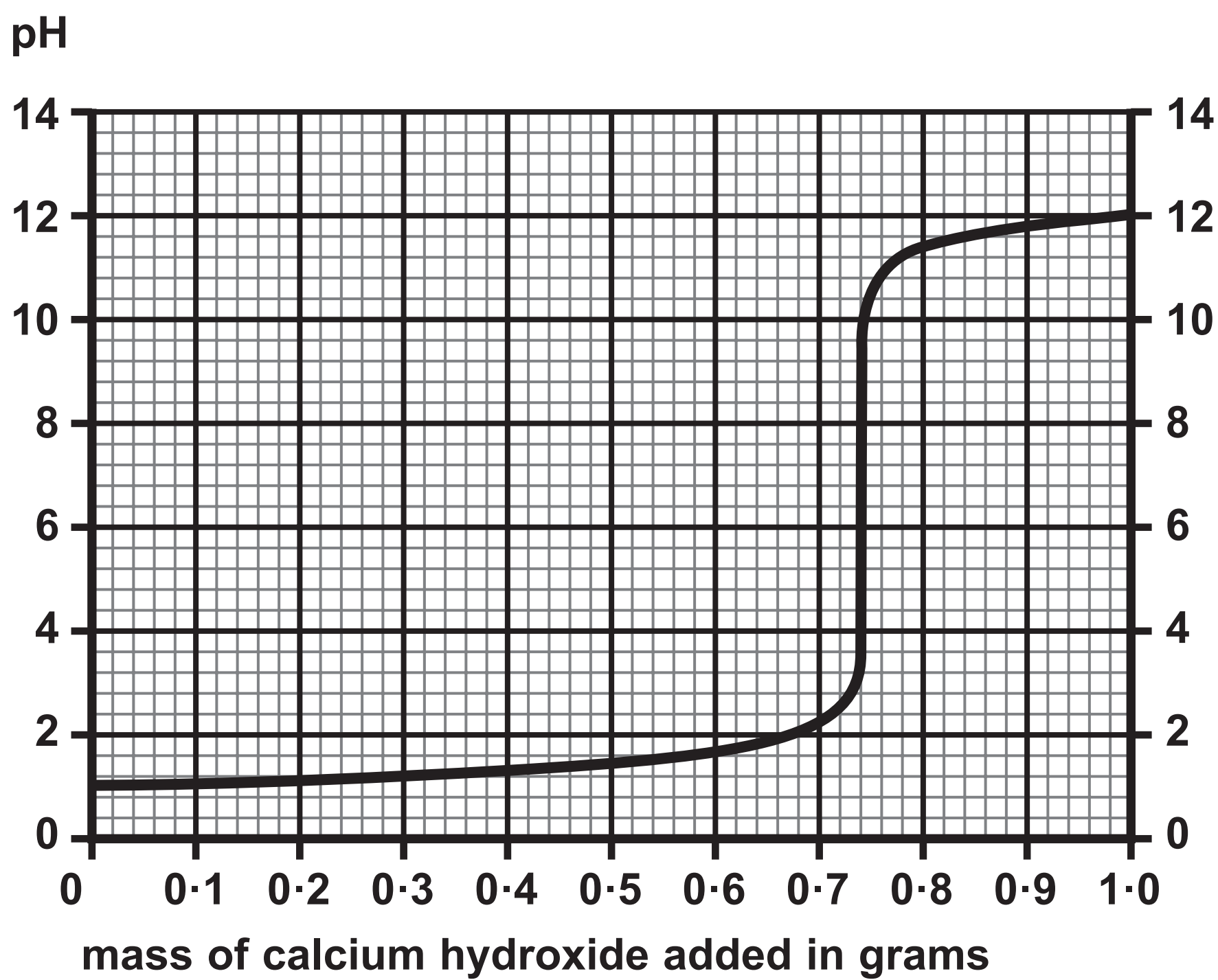
C

☐

D

## Question 8(d)

FIGURE 12





**Question 9(a)****FIGURE 13**

**calcium**  
**magnesium**  
**aluminium**  
**zinc**  
**iron**  
**copper**  
**silver**  
**gold**



**increasing reactivity**

Question 9(b)

FIGURE 14

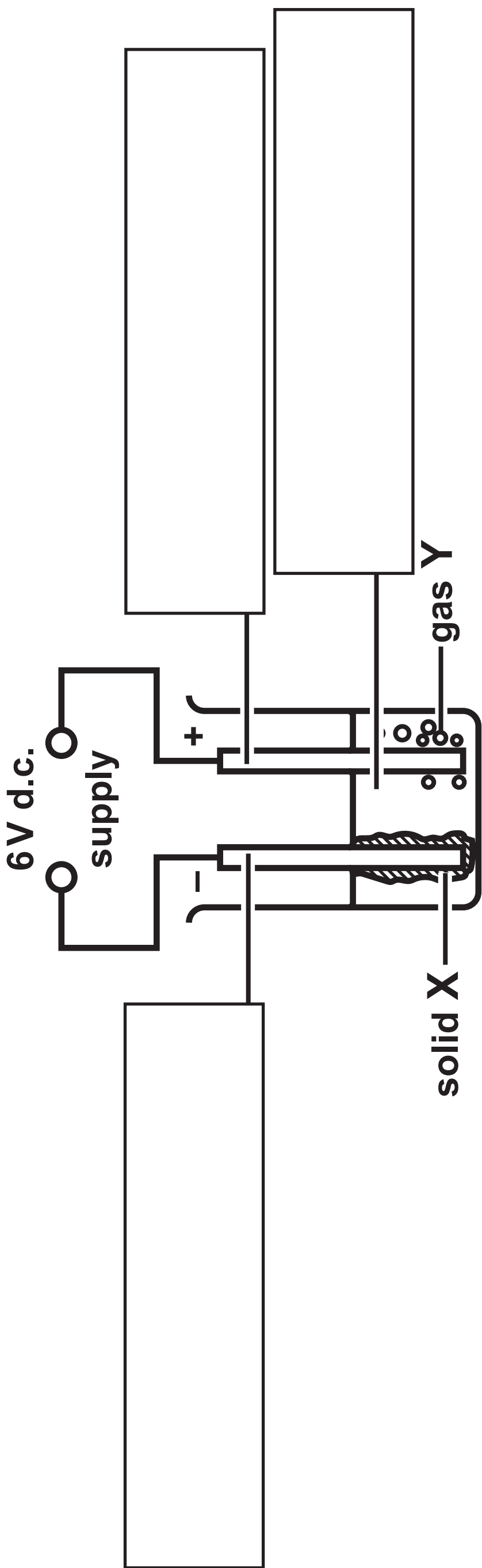
metal	observations
magnesium	
zinc	bubbles produced at a steady rate test tube feels slightly warm
iron	
copper	no reaction

## Question 10(b)

	<b>melting point of vanadium in °C</b>	<b>colour of vanadium oxide</b>
<input type="checkbox"/> A	<b>50</b>	<b>white</b>
<input type="checkbox"/> B	<b>1910</b>	<b>white</b>
<input type="checkbox"/> C	<b>50</b>	<b>orange</b>
<input type="checkbox"/> D	<b>1910</b>	<b>orange</b>

FIGURE 5

anode  
cathode  
electrolyte



Question 3(b)(ii)

product

solid X

gas Y

name

carbon

chlorine

copper

hydrogen