

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

Chemistry
PAPER 1
Foundation Tier

Monday 22 May 2023 – Morning

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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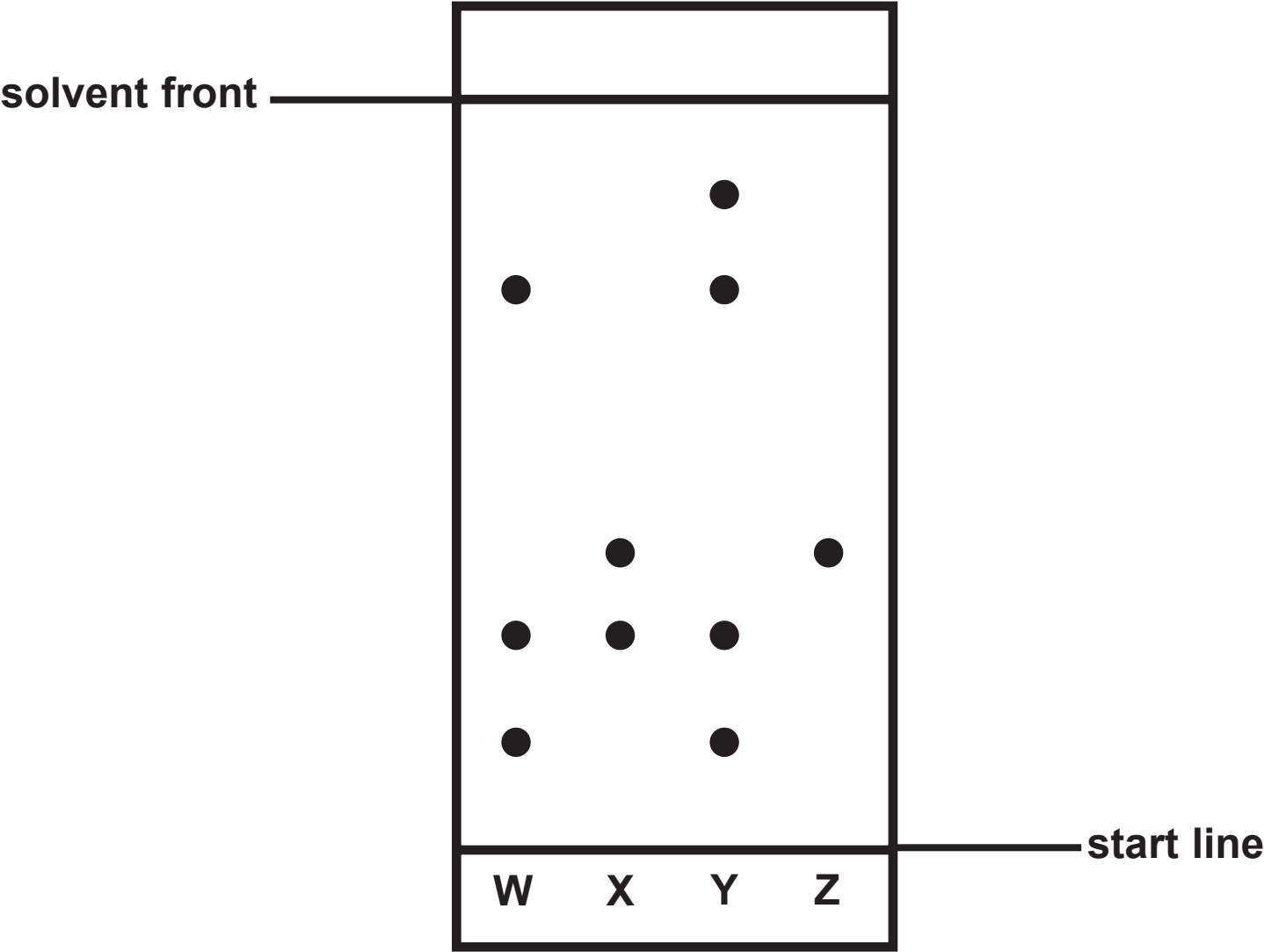
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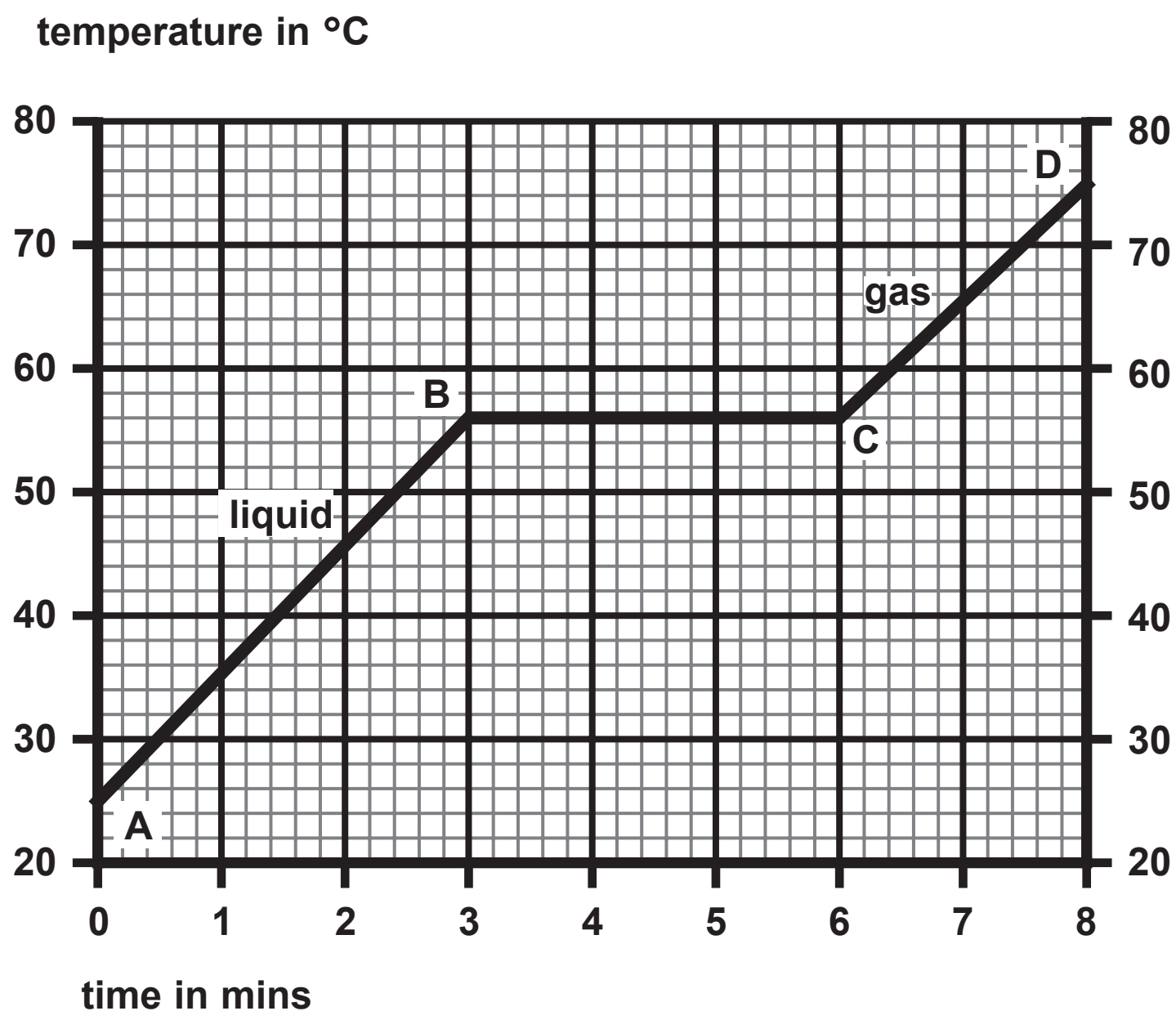
Question 1(a)

FIGURE 1



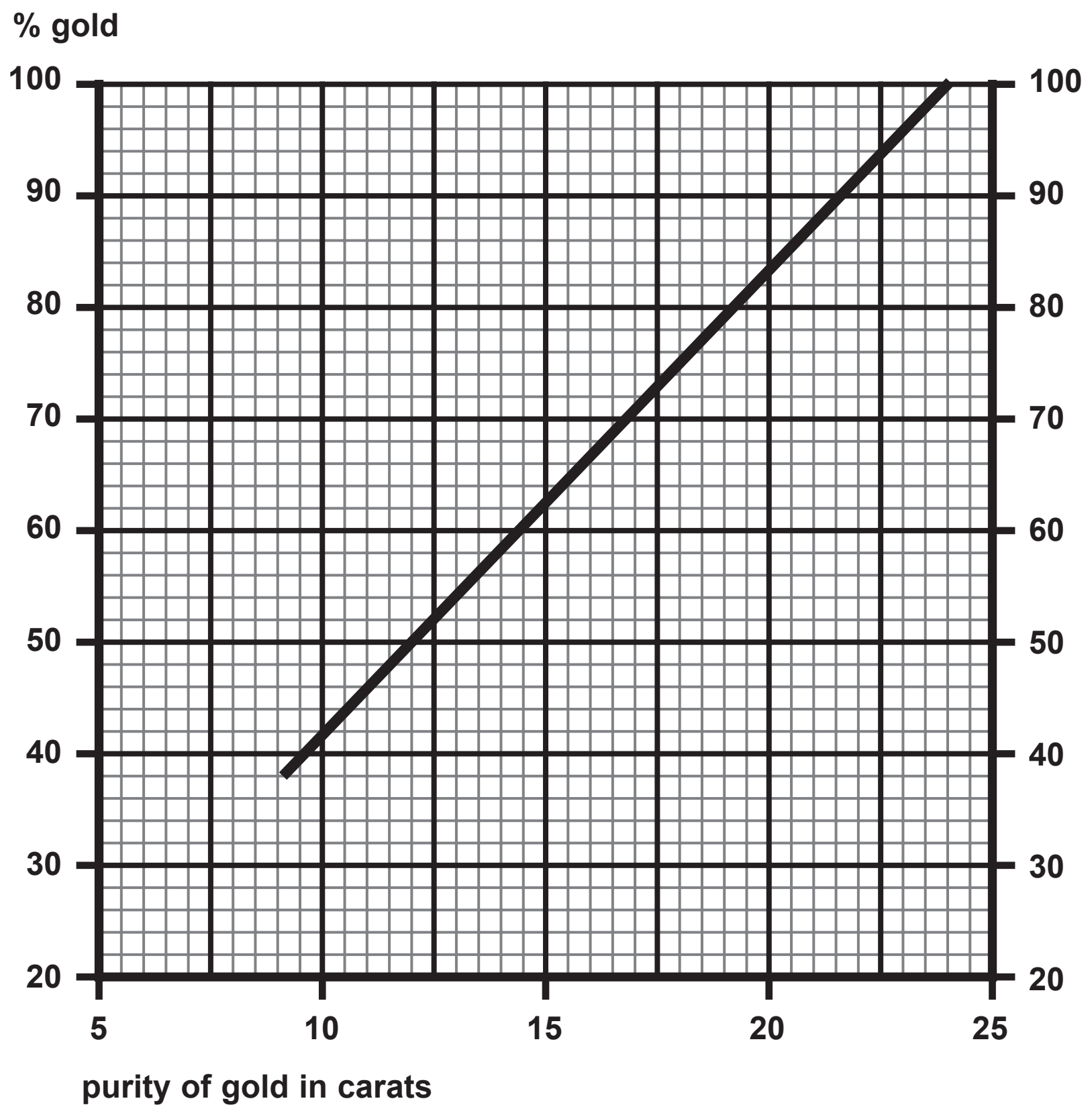
Question 1(b)

FIGURE 2



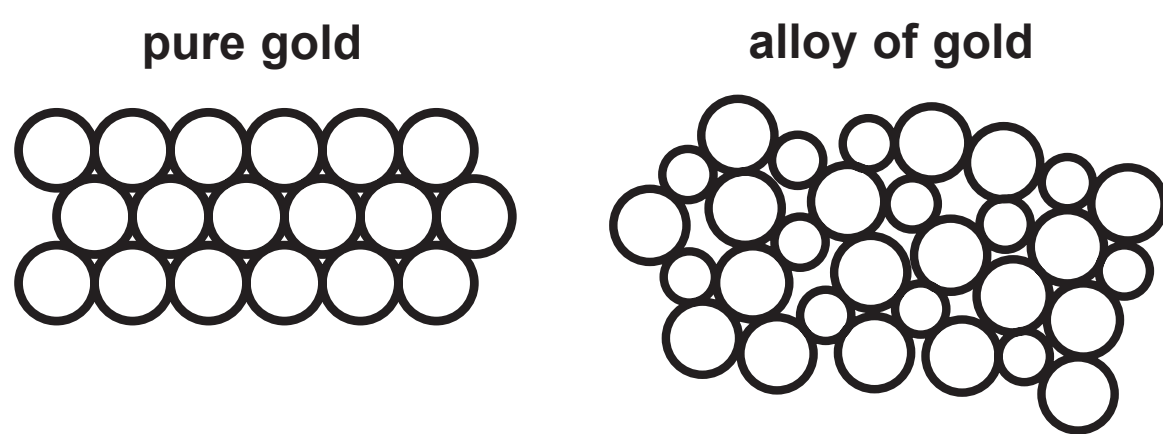
Question 2(a)

FIGURE 3



Question 2(b)

FIGURE 4



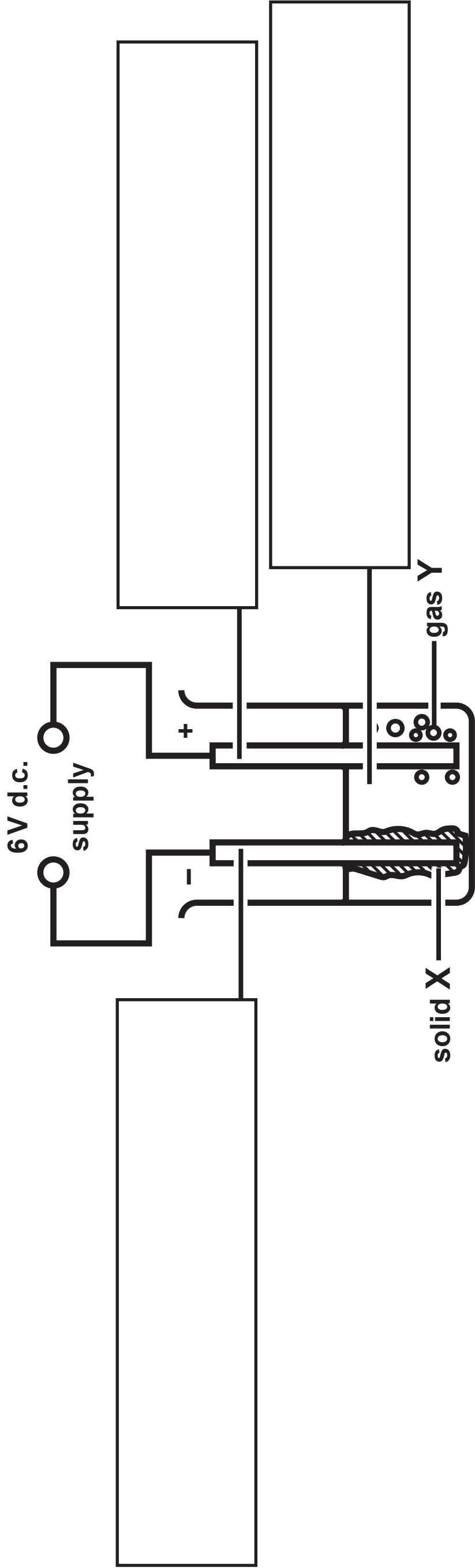
LIST OF WORDS

anode

cathode

electrolyte

FIGURE 5



Question 3(b)(ii)

product	name
<div>solid X</div>	<div>carbon</div>
	<div>chlorine</div>
	<div>copper</div>
<div>gas Y</div>	<div>hydrogen</div>

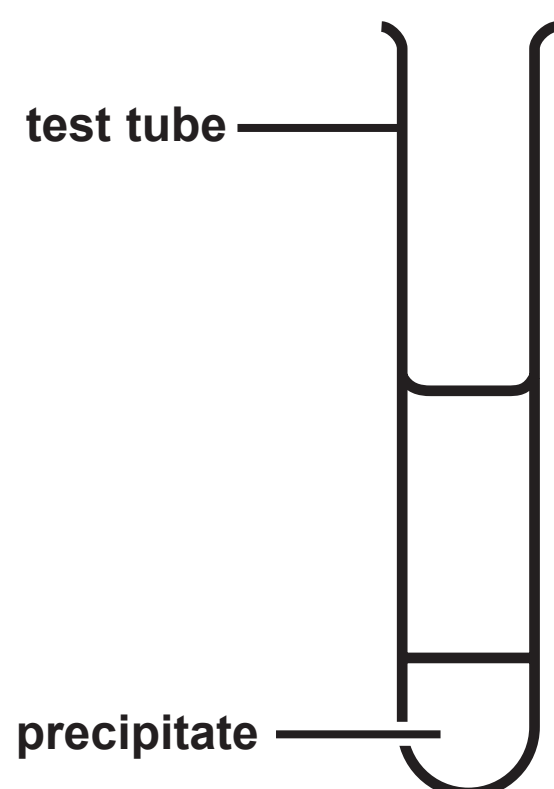
Question 4(c)

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

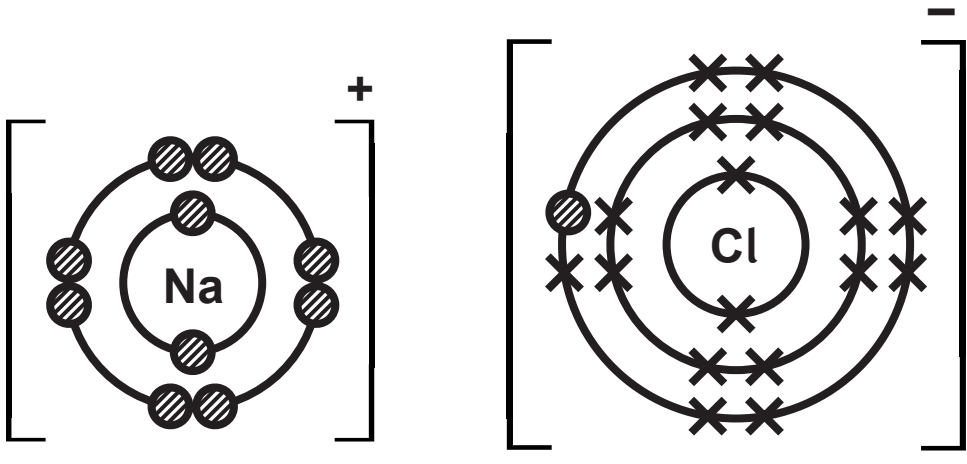
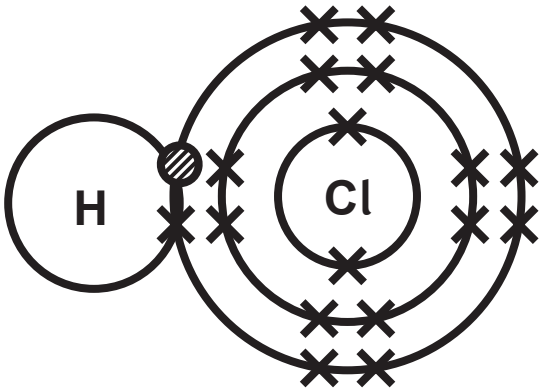
Question 5(b)(i)

FIGURE 7



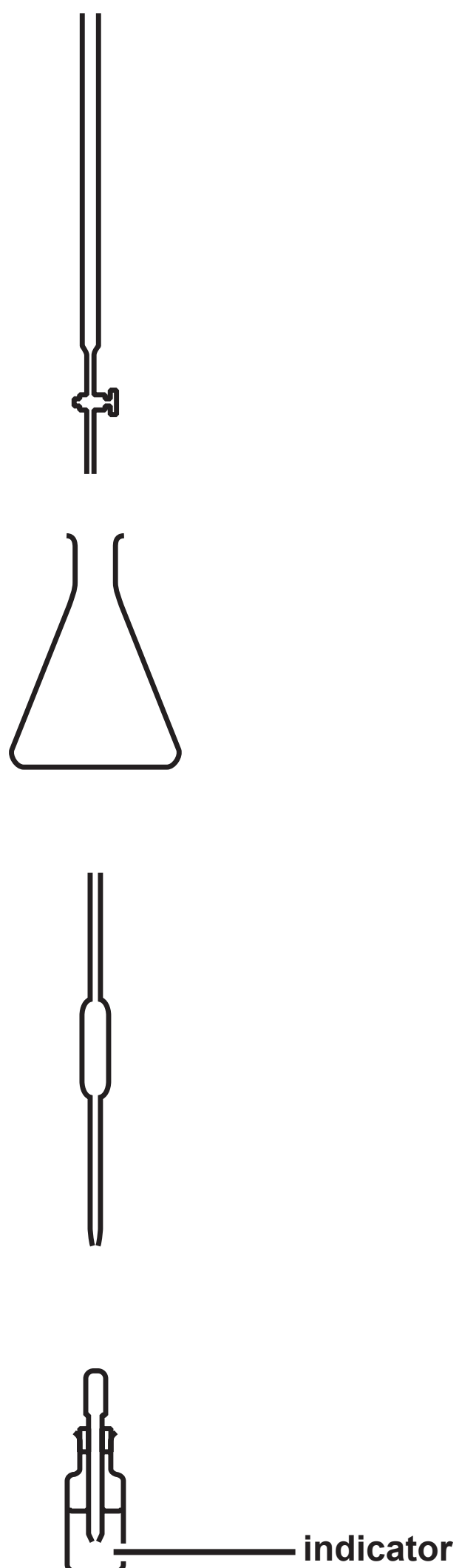
Question 6(d)

FIGURE 9

sodium chloride (ionic bonding)	hydrogen chloride (covalent bonding)
<div data-bbox="201 1190 1104 1688">  <div data-bbox="258 1644 512 1688">sodium ion</div> <div data-bbox="747 1644 1010 1688">chloride ion</div> </div>	<div data-bbox="1331 1243 1837 1605">  </div>

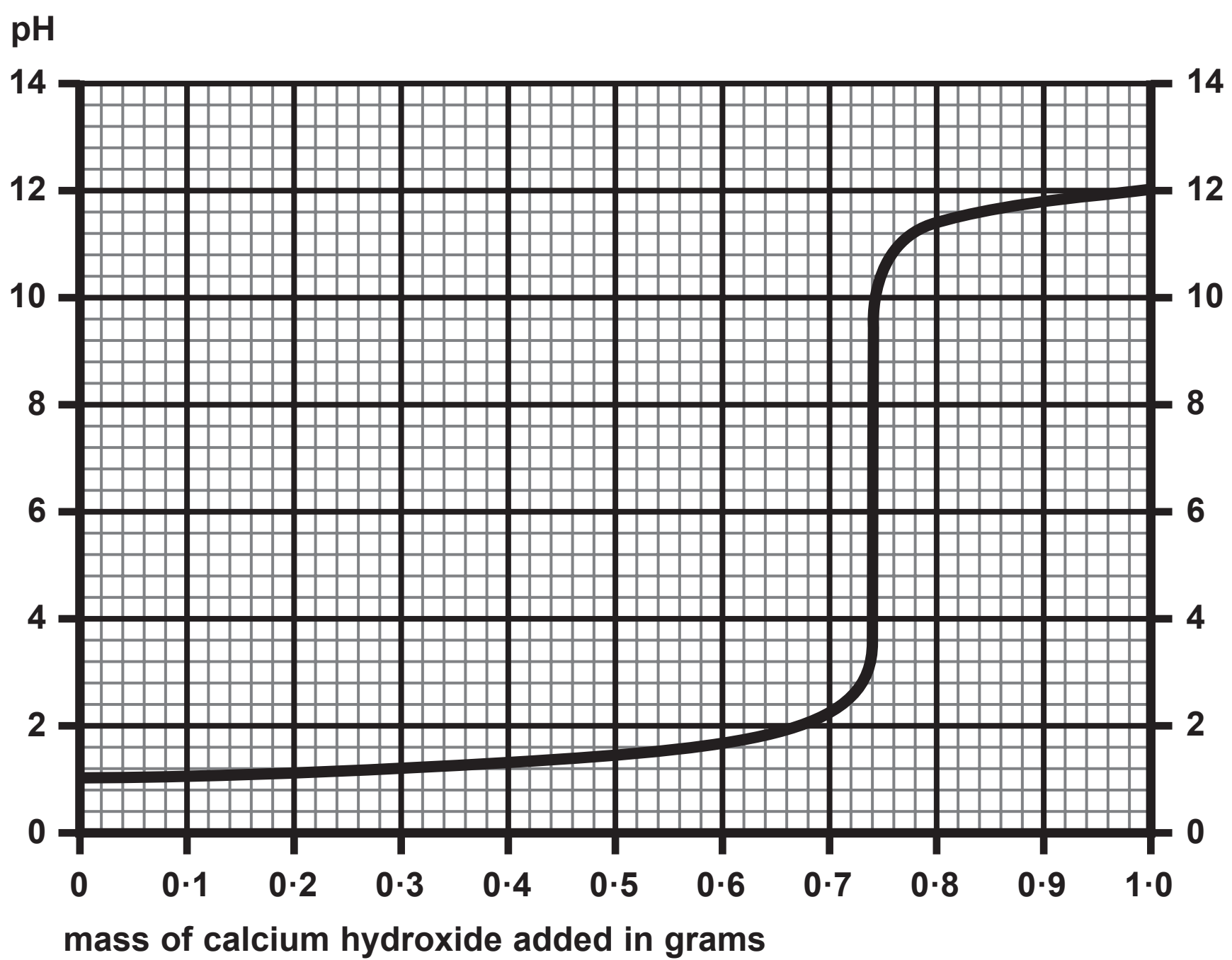
Question 7(c)

FIGURE 11



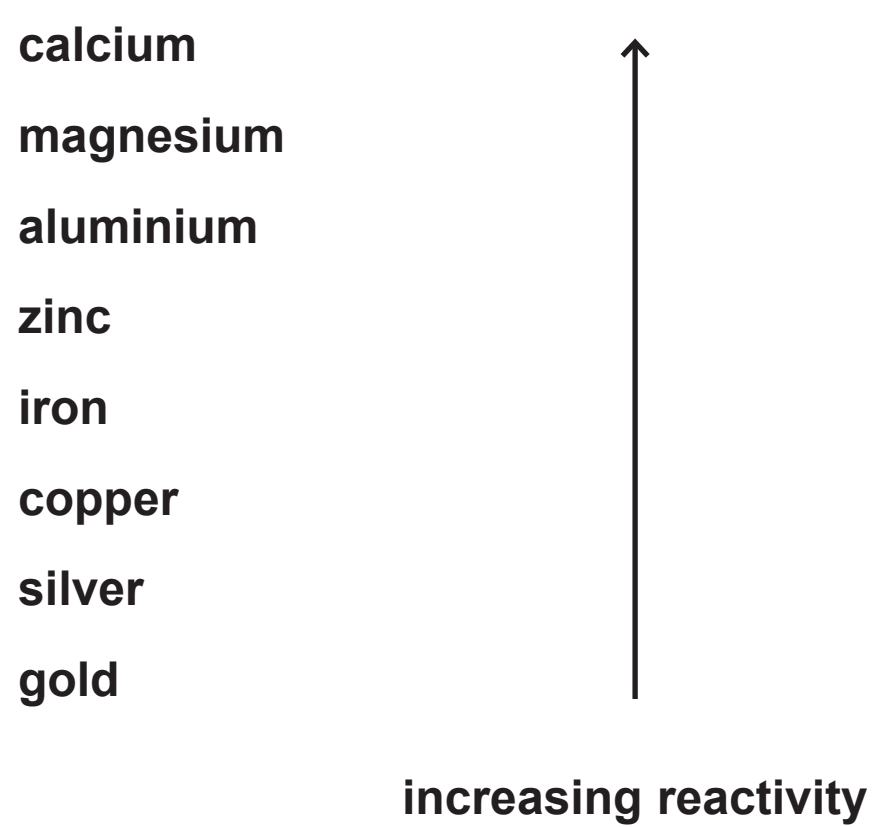
Question 8(d)

FIGURE 12



Question 9(a)

FIGURE 13



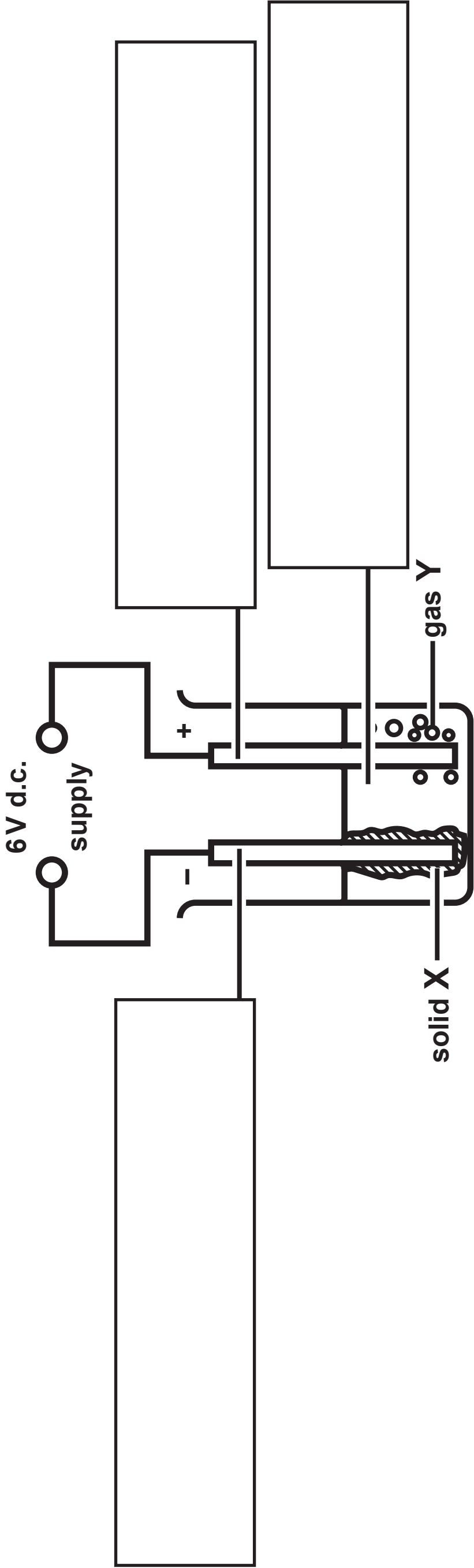
Question 9(b)

FIGURE 14

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

FIGURE 5

anode
cathode
electrolyte



Question 3(b)(ii)

product

solid X

gas Y

name

• carbon

• chlorine

• copper

• hydrogen