

**Paper Reference(s)    1SC0/1CF**  
**Pearson Edexcel Level 1/Level 2**  
**GCSE (9–1)**

**Combined Science**  
**PAPER 2**  
**Foundation Tier**

**Monday 22 May 2023 – Morning**

**Time: 1 hour 10 minutes**

**Diagram Booklet**

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

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

## **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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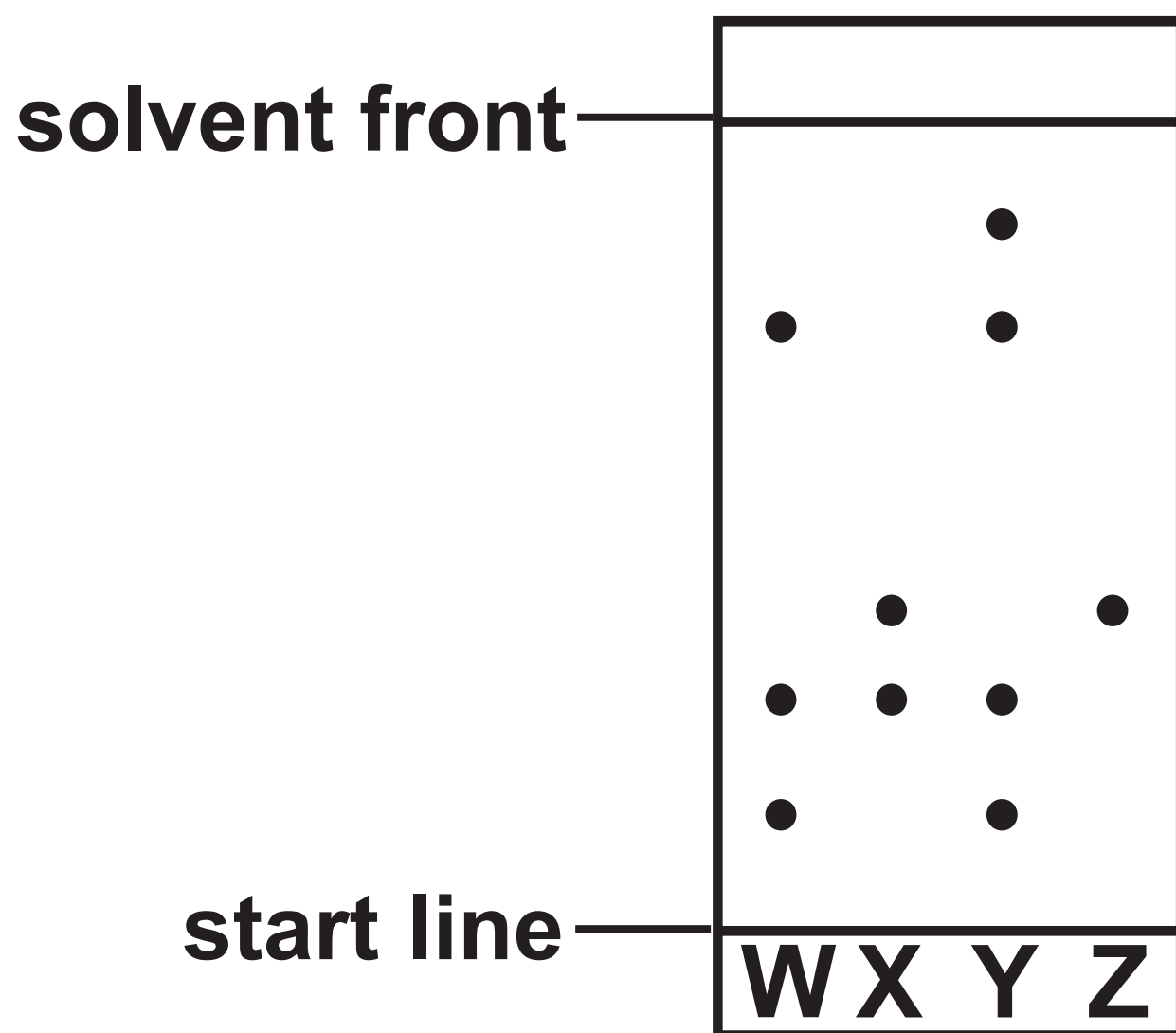
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# Question 1(a)

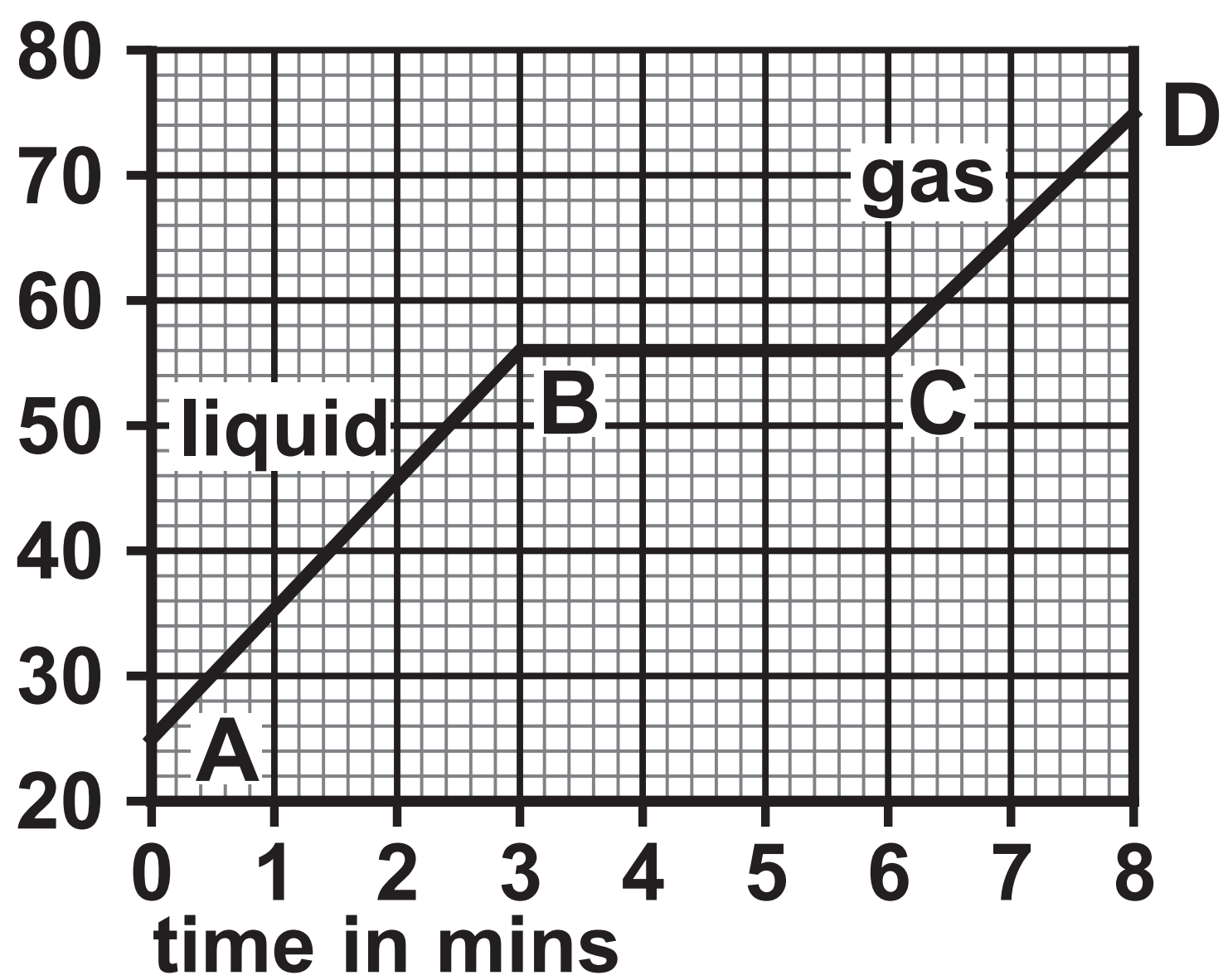
**FIGURE 1**



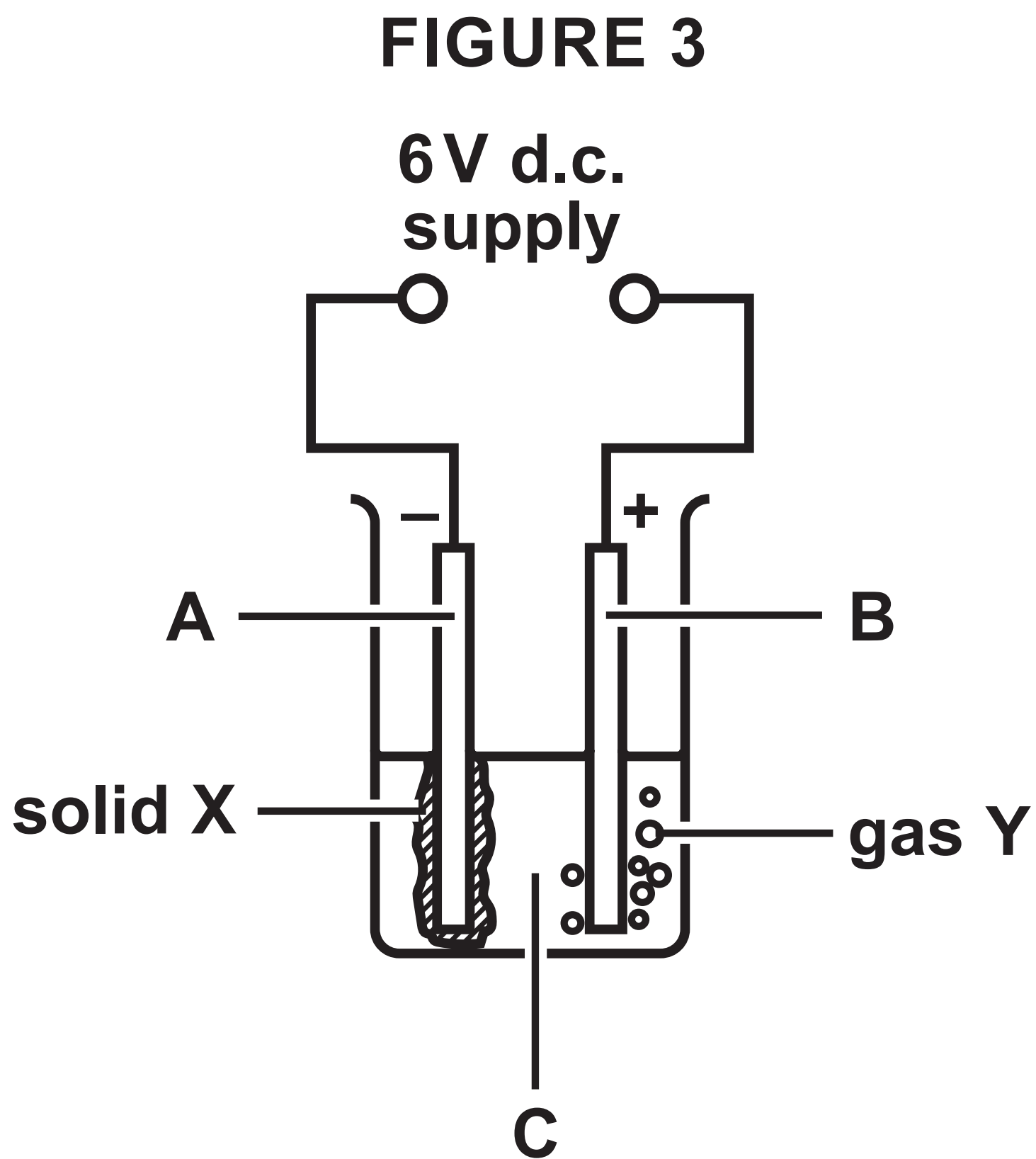
## Question 1(b)

**FIGURE 2**

temperature in °C



## Question 2(b)



## Question 2(b)(ii)

**PRODUCT**

solid X •

gas Y •

**NAME**

• carbon

• chlorine

• copper

• hydrogen

## Question 3(a)(ii)

### Diagram A



### Diagram B



### Diagram C



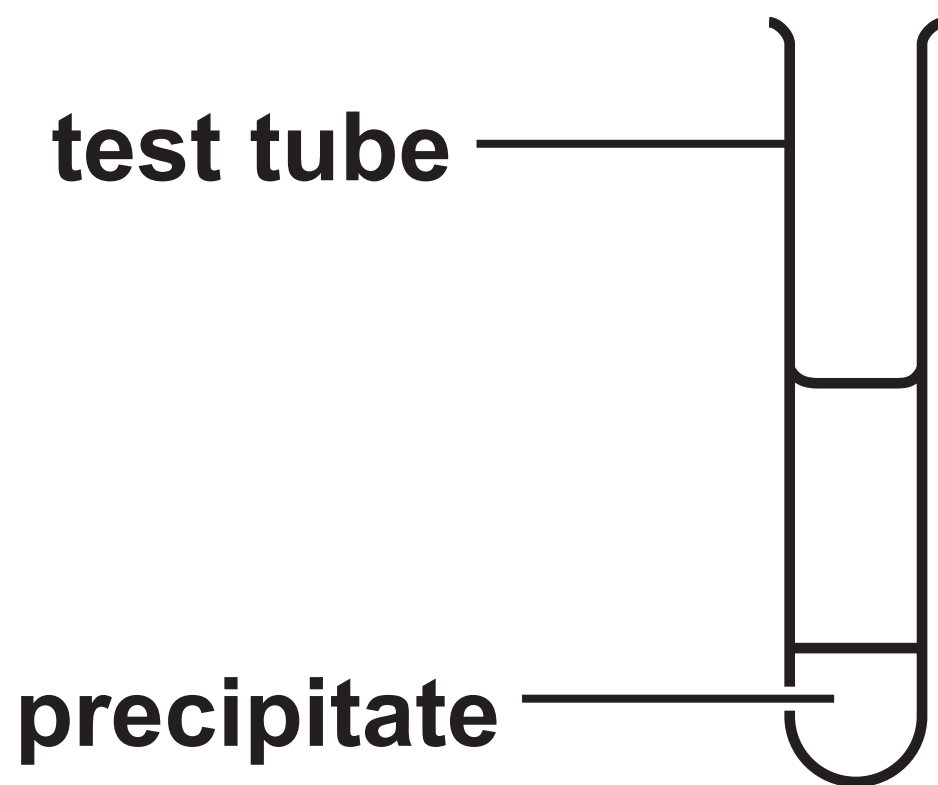
### Diagram D





## Question 3(b)

**FIGURE 4**

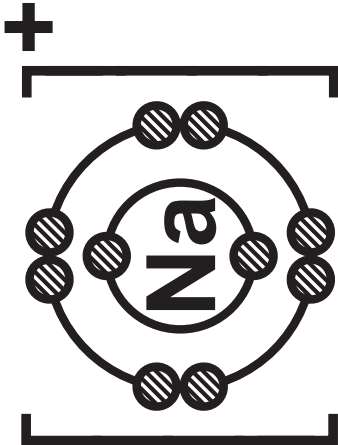
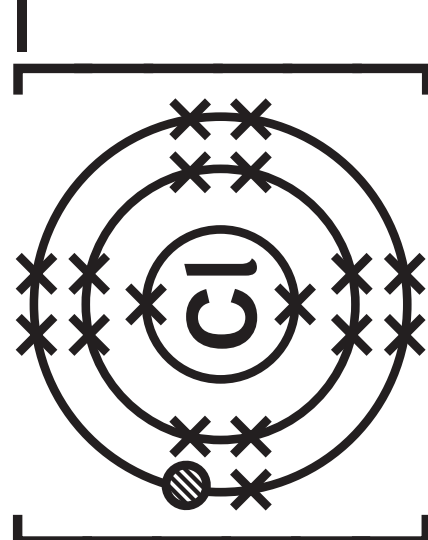
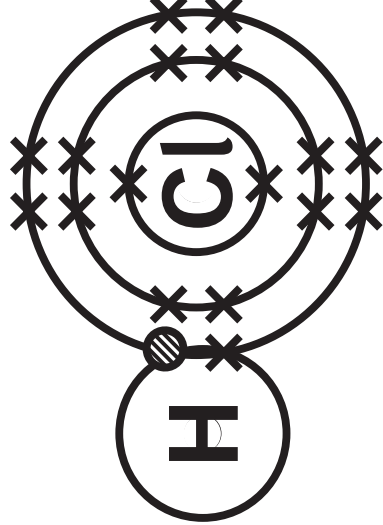


Question 3(b)(ii)

FIGURE 5

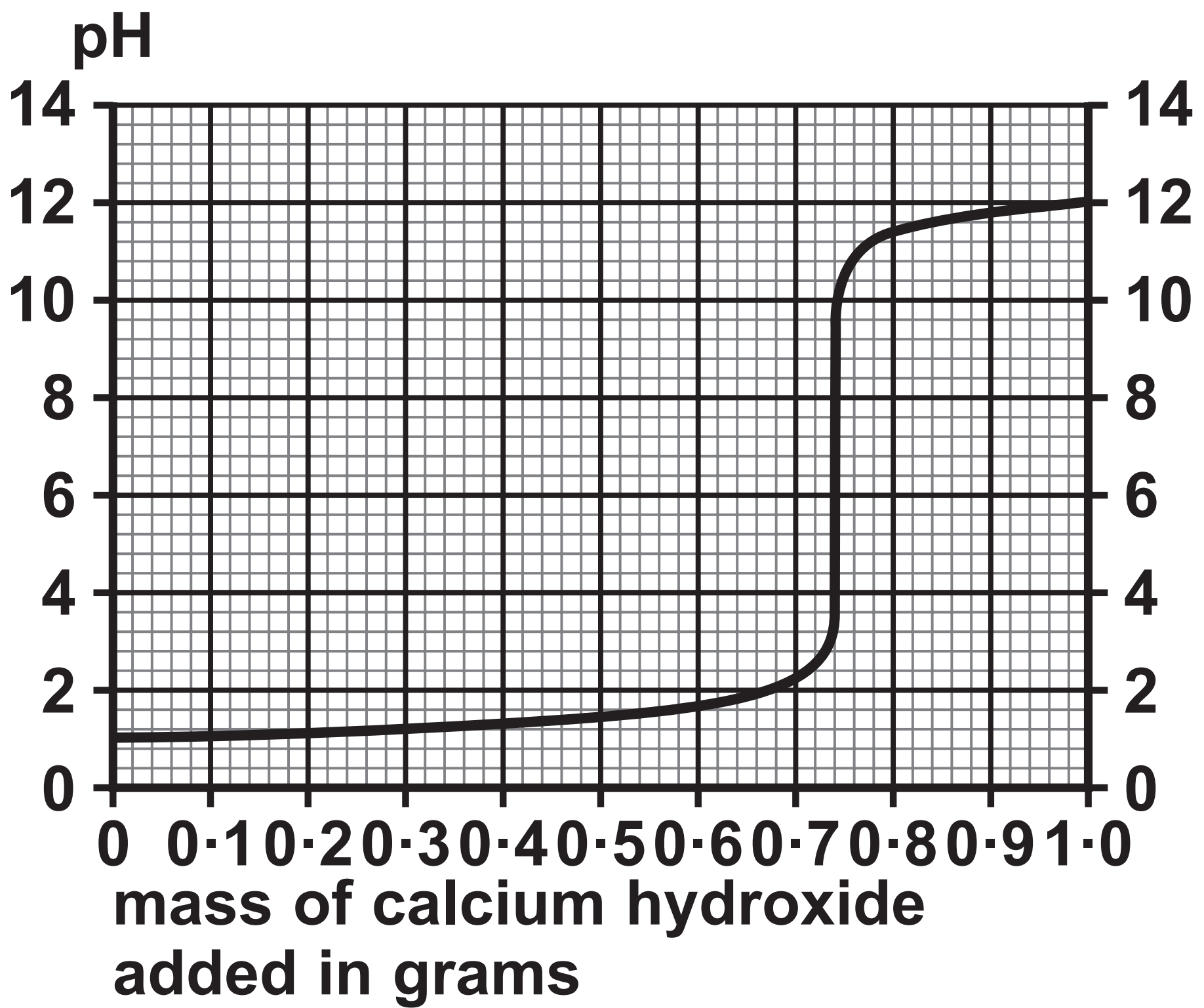
experiment	height of precipitate in cm
1	2.4
2	2.7
3	2.4

FIGURE 6

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

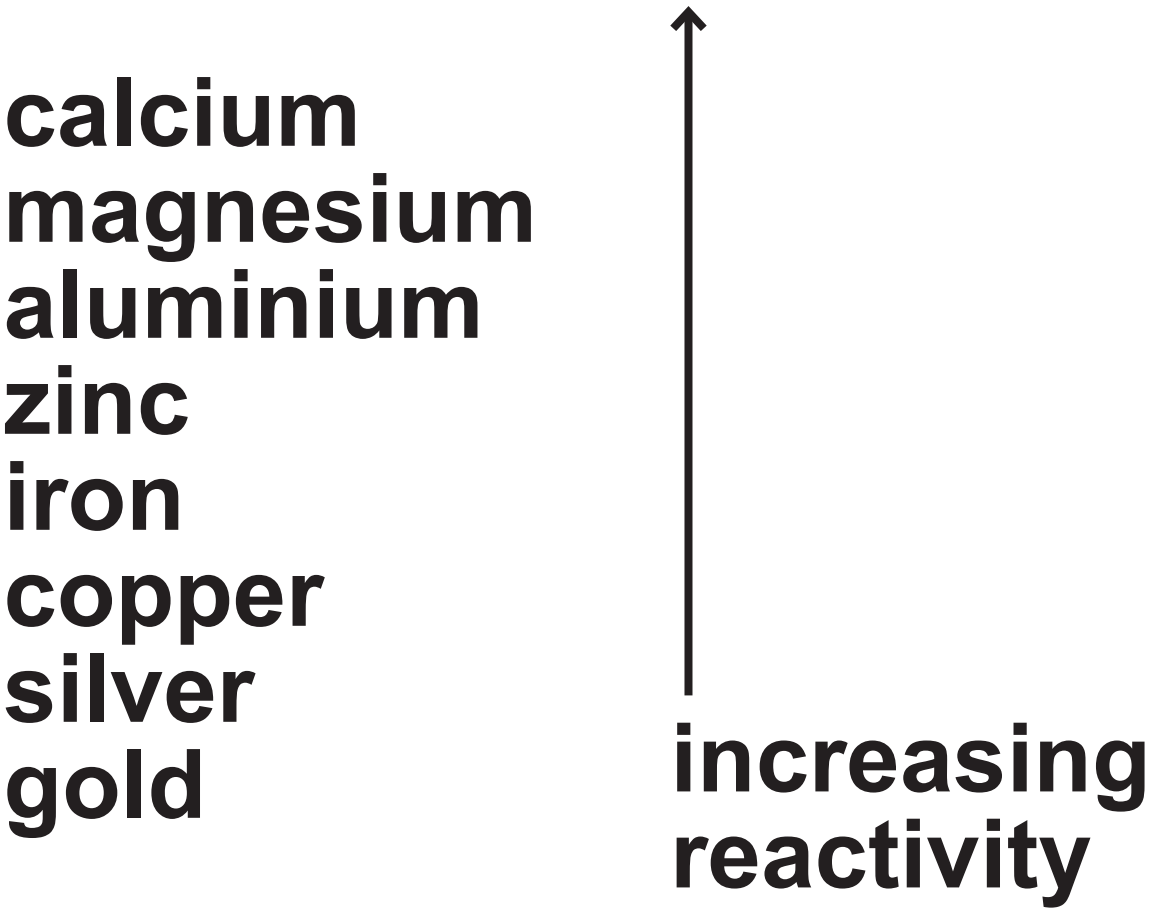
## Question 5(d)

FIGURE 7



# Question 6

FIGURE 8



Question 6(b)

FIGURE 9

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

Question 2(b)(ii)

PRODUCT

solid X

gas Y

NAME

• carbon

• chlorine

• copper

• hydrogen