

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

Chemistry  
PAPER 1  
Higher Tier

Friday 17 May 2024 – Morning

Time: 1 hour 45 minutes

Diagram Booklet

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

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

Surname					
Other names					
Centre Number					
Candidate Number					

## **INSTRUCTIONS**

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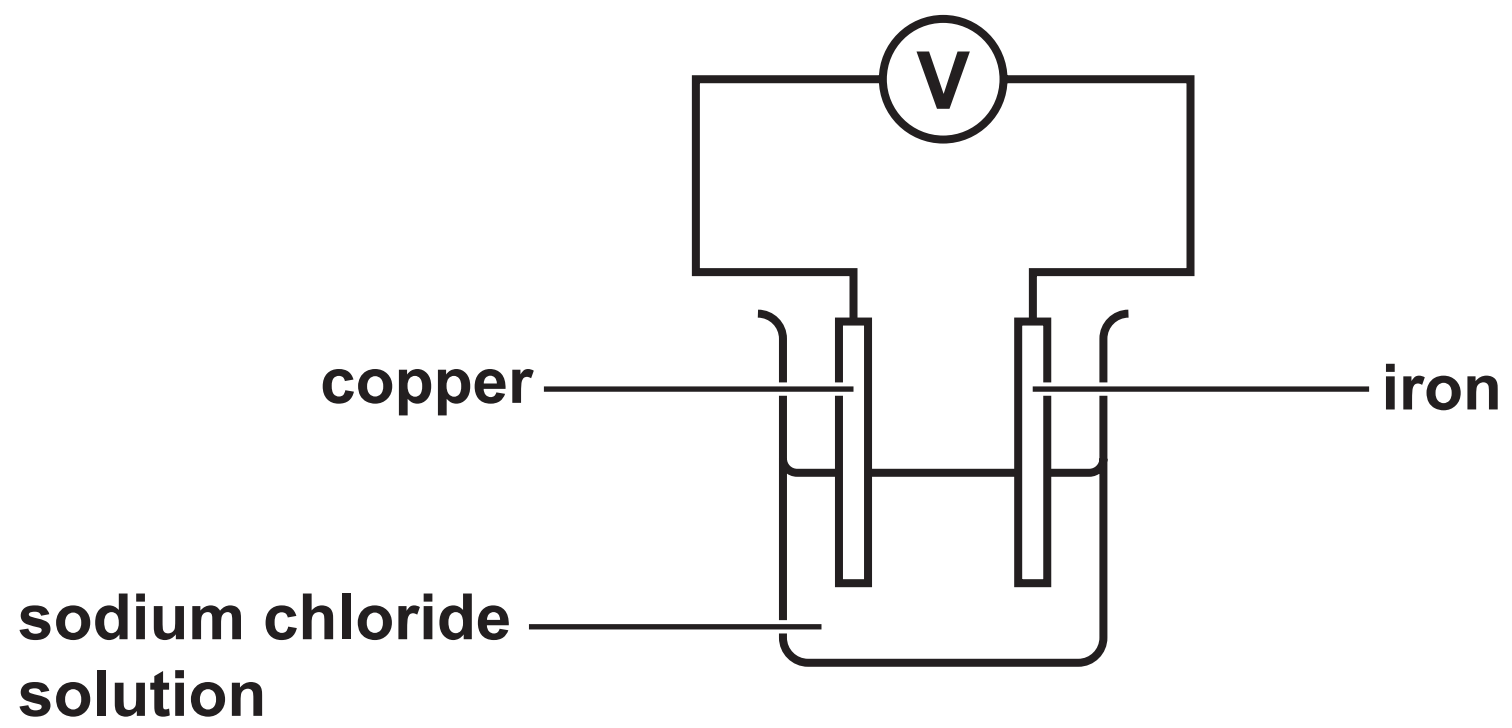
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## Question 1(a)

FIGURE 1



Question 1(d)

FIGURE 2

KEY

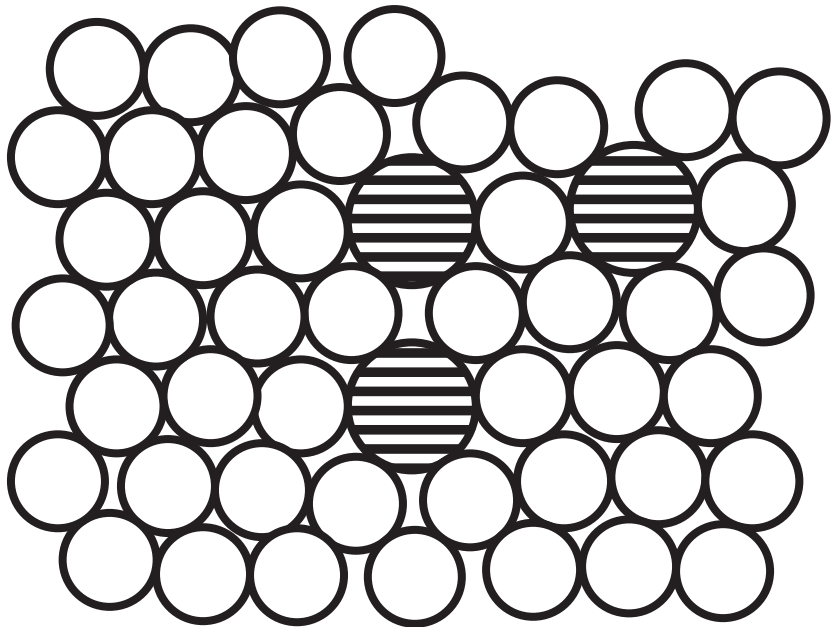
○

zinc atom

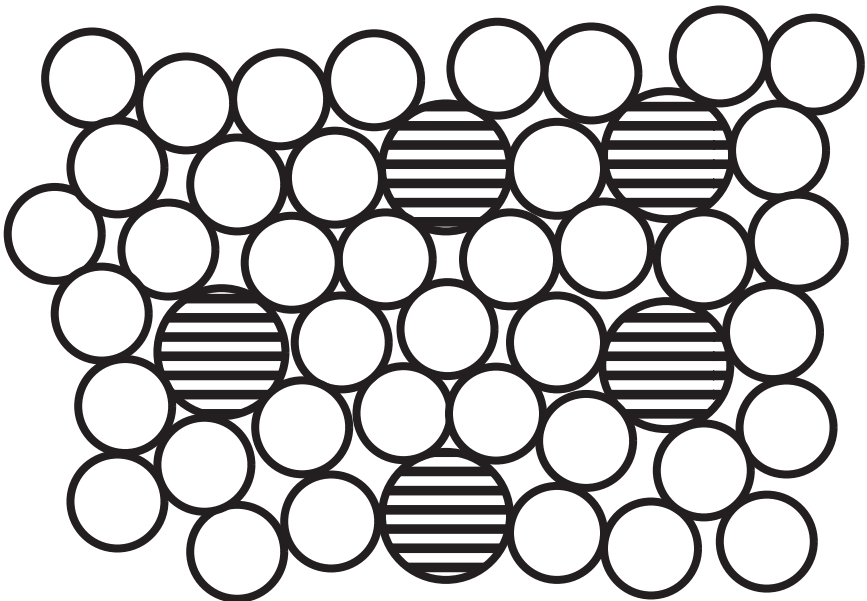
⦶

copper atom

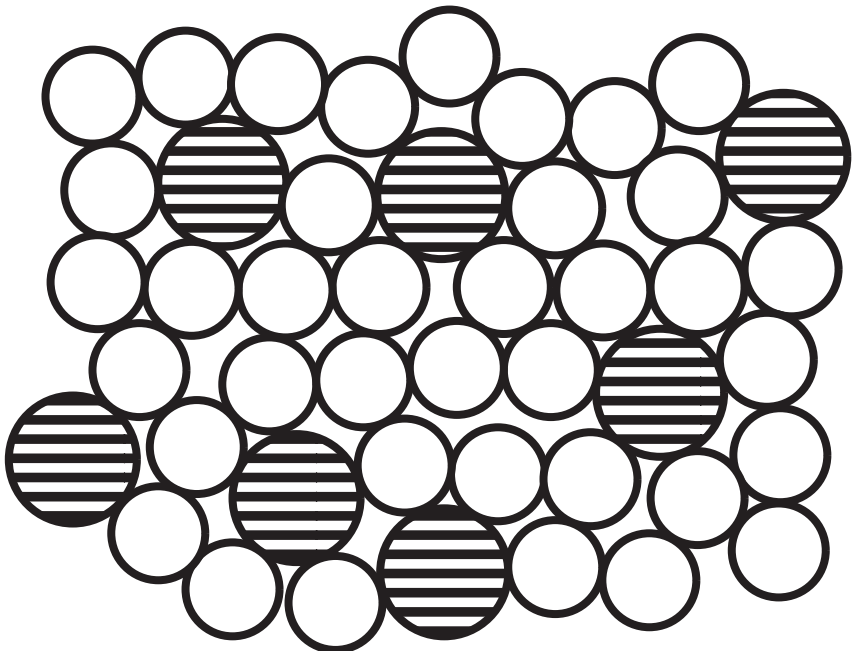
alloy A



alloy B



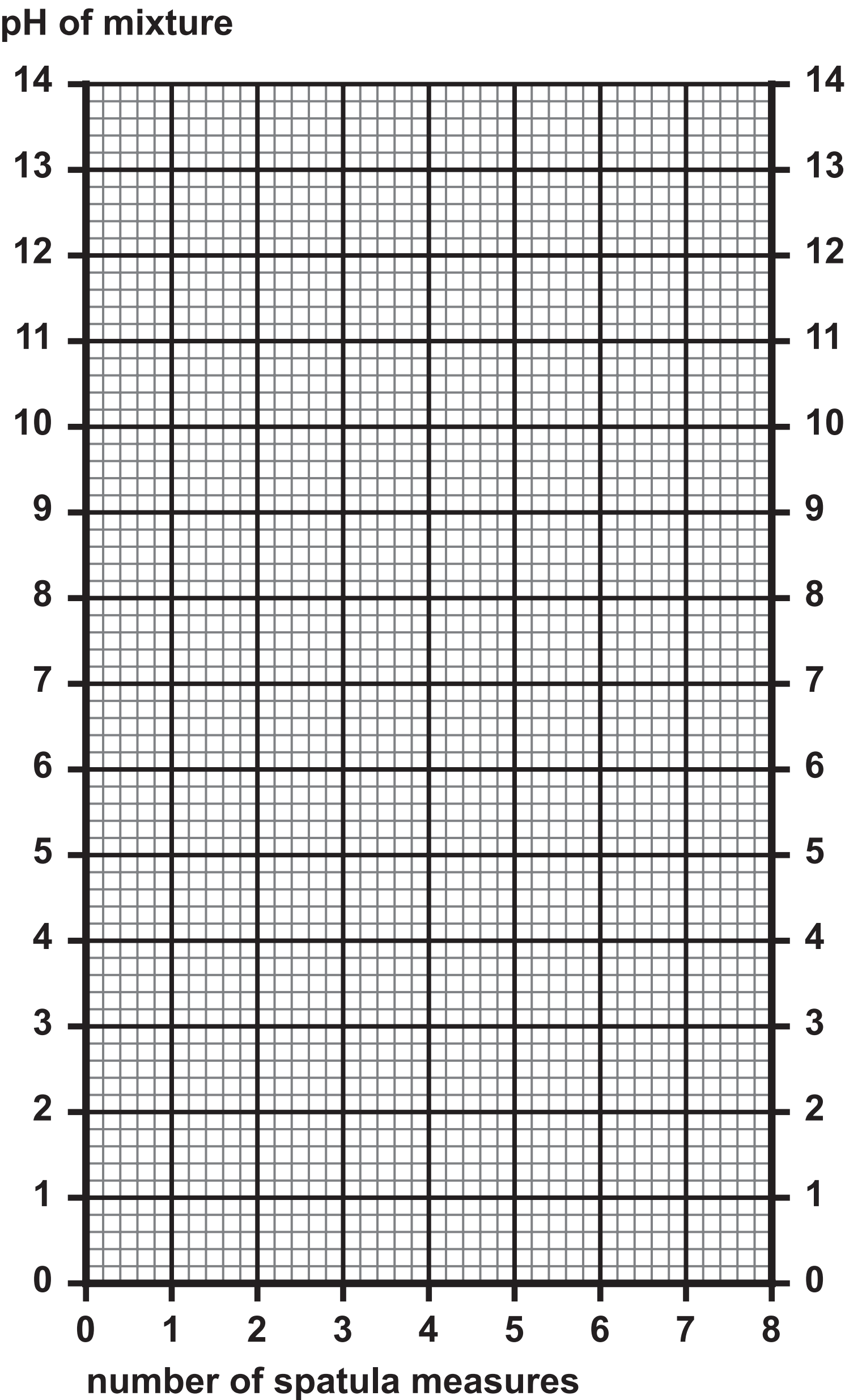
alloy C



Question 2(a)(i)



Question 2(b)(iii)



Question 4(a)

FIGURE 4

	mass in tonnes
mass of titanium oxide	100·00
mass of titanium produced	45·26
theoretical mass of titanium formed	60·00

## Question 7(a)

FIGURE 5

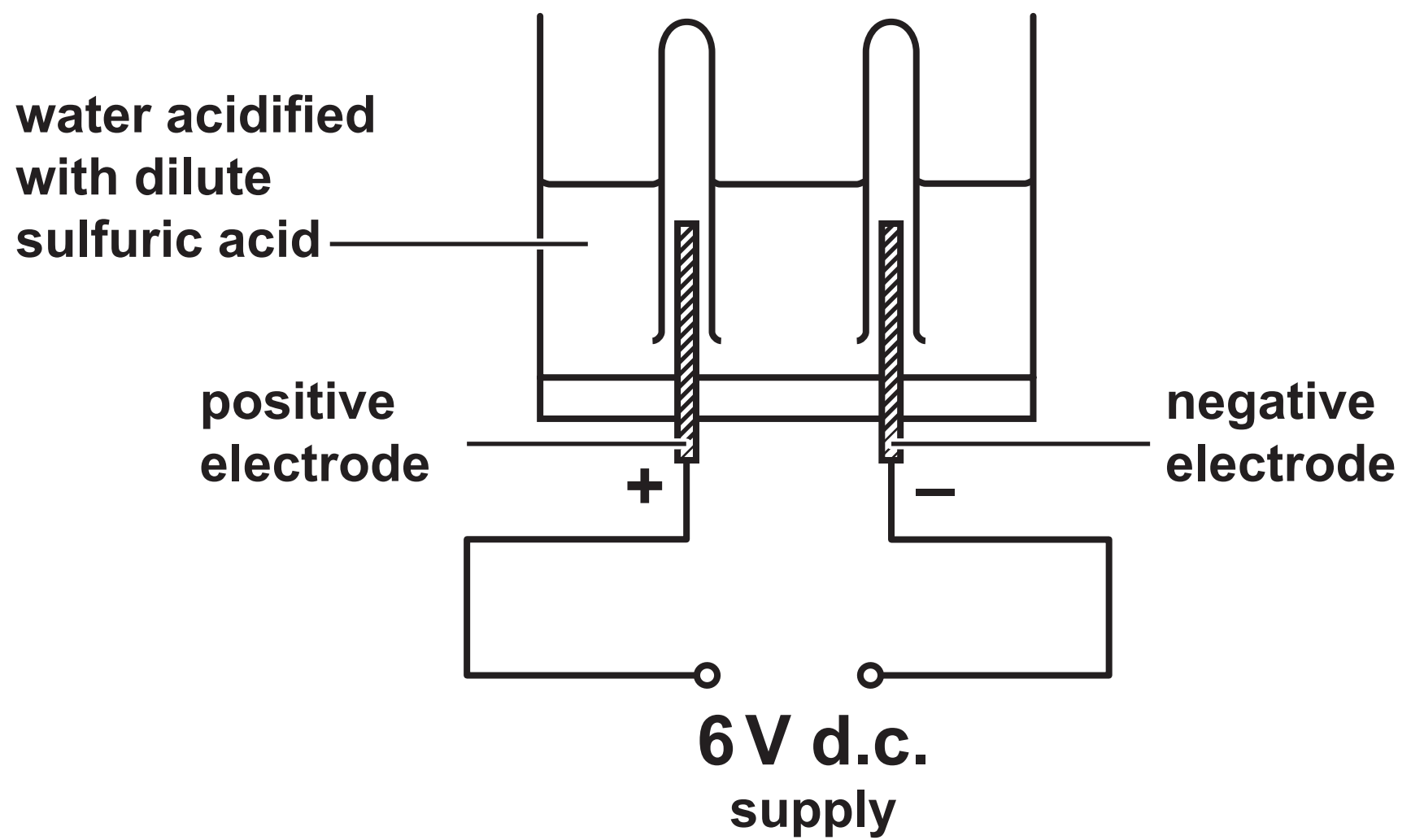




diagram A

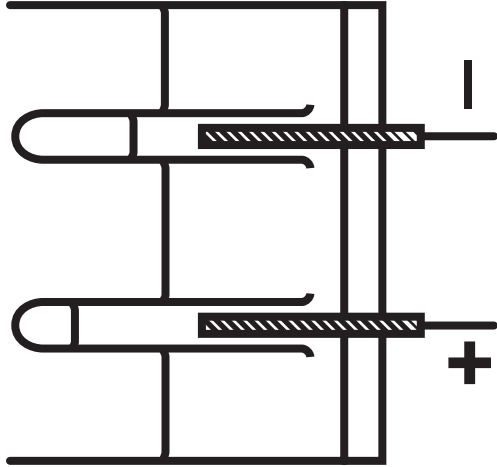


diagram B

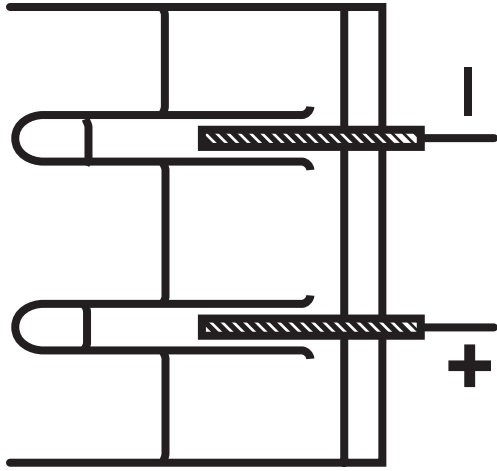


diagram C

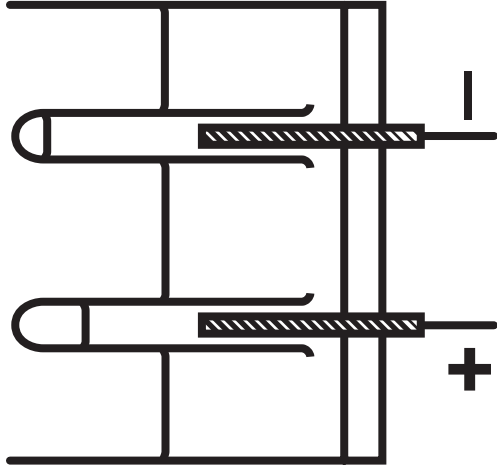
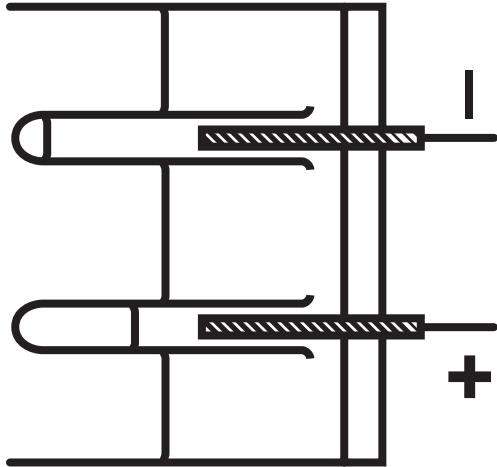


diagram D



Question 7(b)

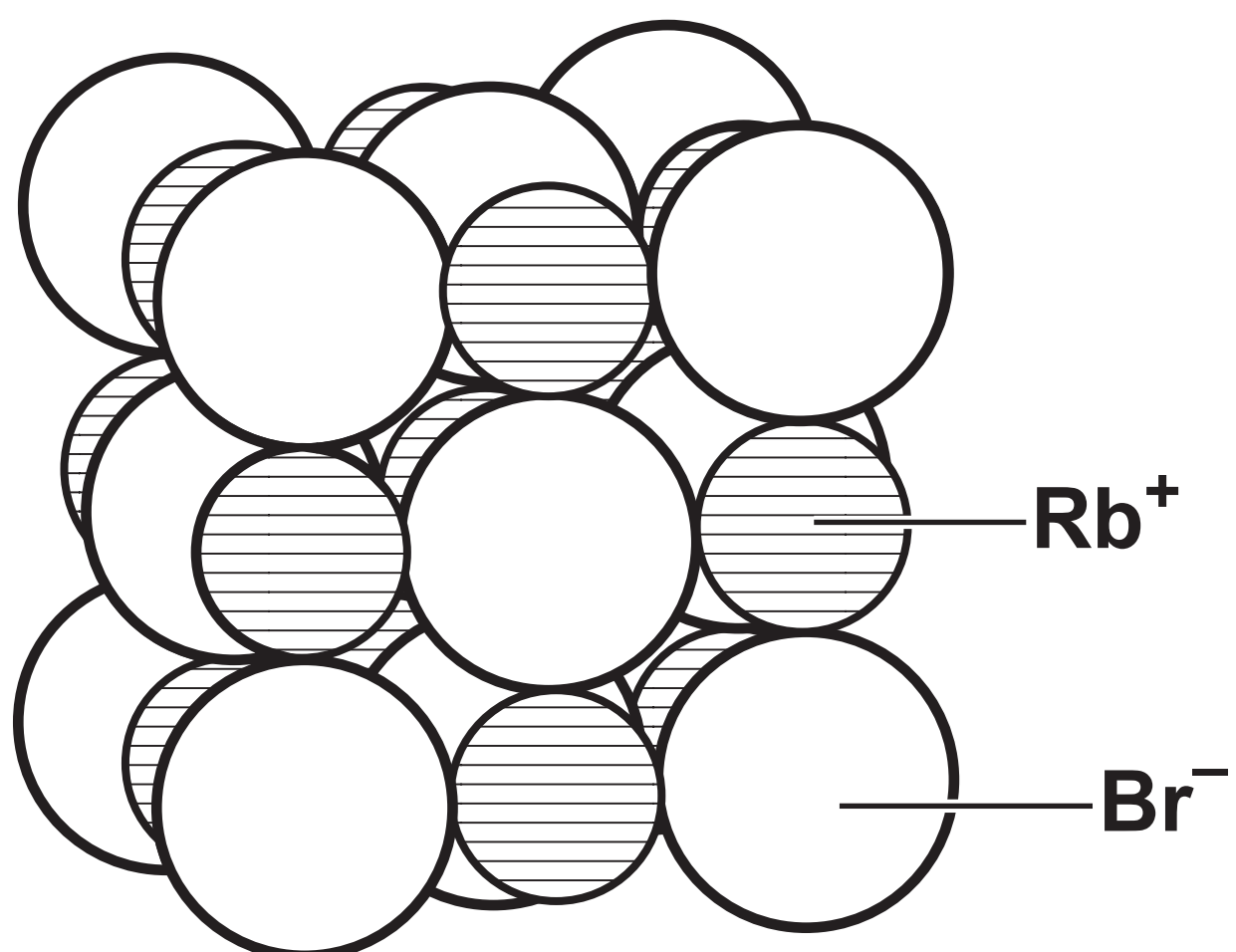
FIGURE 6

	mass of cathode in g	appearance of copper sulfate solution
before electrolysis	5.32	pale blue solution
after electrolysis	5.87	pale blue solution

**Question 8(a)(i) – Blank**

## Question 8(b)

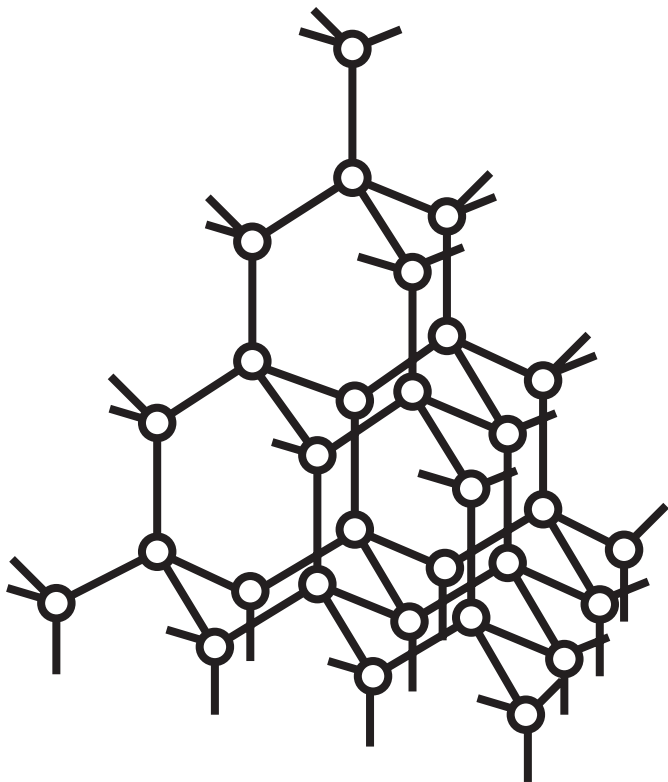
FIGURE 7



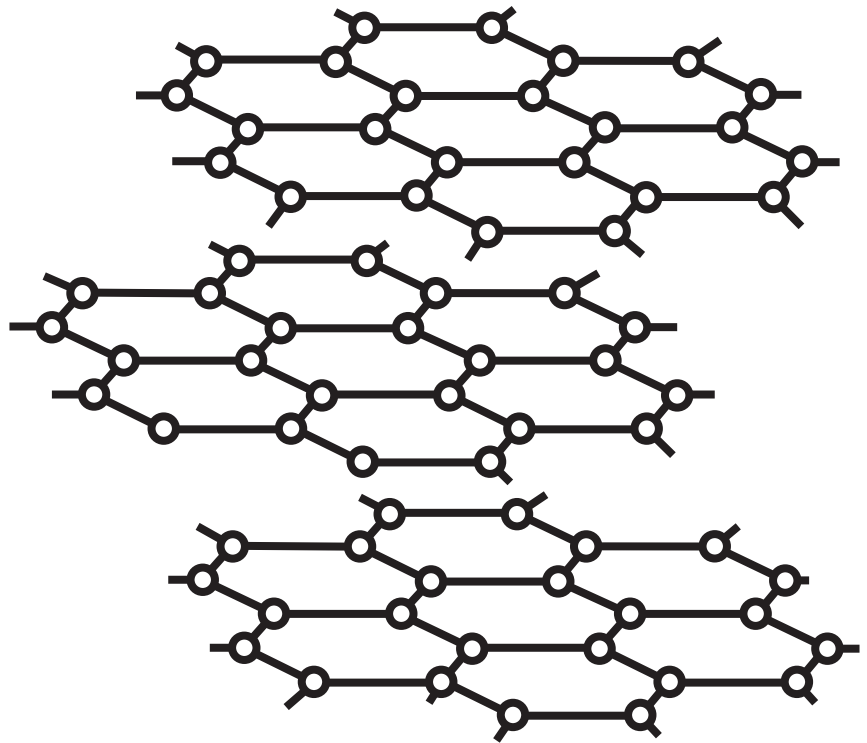
## Question 8(c)

FIGURE 8

diamond



graphite



## Question 9(a)

FIGURE 9

<b>metal</b>	<b>observations with dilute hydrochloric acid</b>
<b>D</b>	Bubbles formed quickly. After three minutes all the metal had reacted.
<b>E</b>	Bubbles formed very quickly. No metal remaining after three minutes.
<b>F</b>	A few bubbles were seen to form. The metal looked unchanged after three minutes.
<b>G</b>	

(continued on the next page)

Turn over

Question 9(a) continued

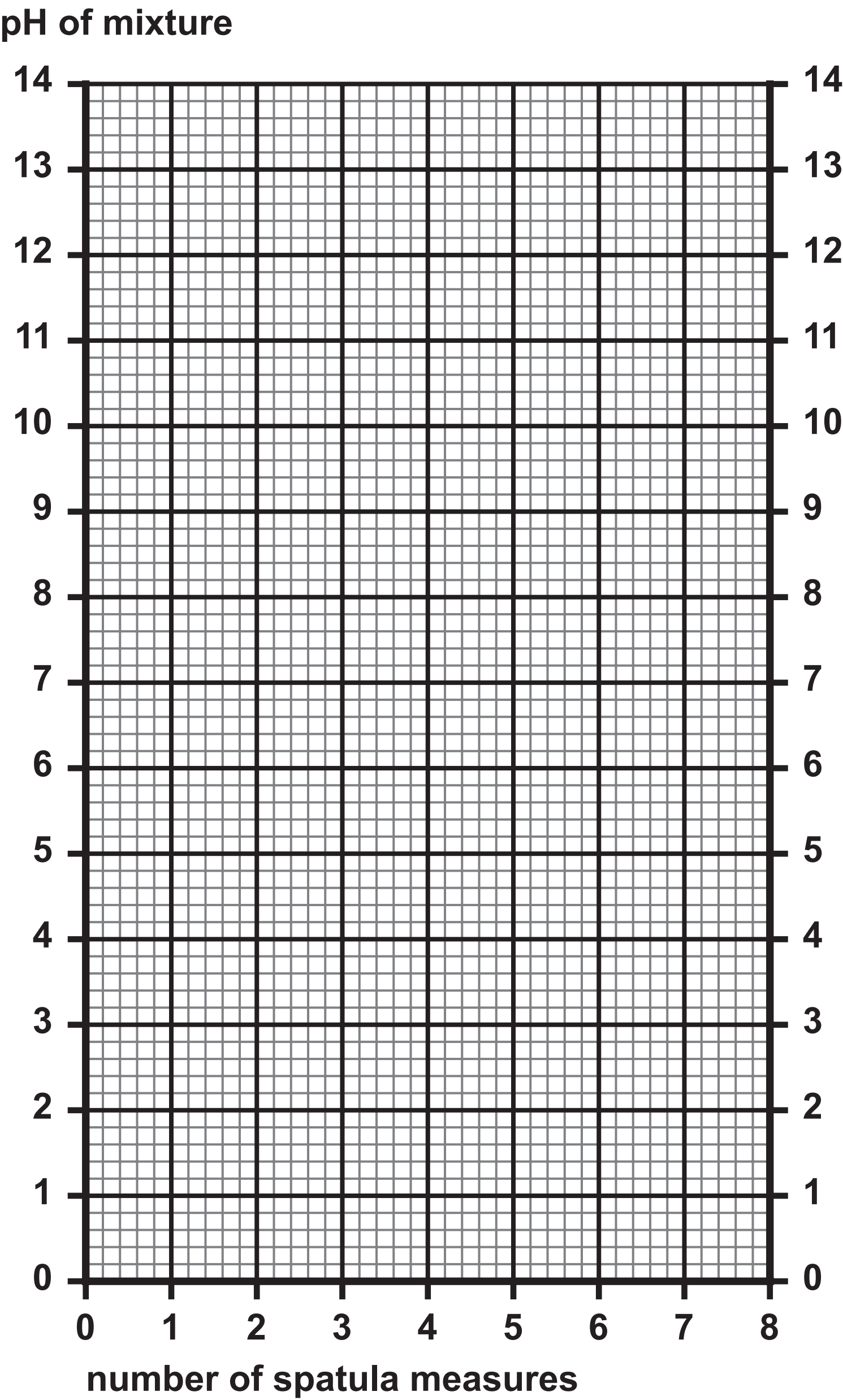
FIGURE 10

E	D	G	F
most reactive			least reactive





Question 2(b)(iii)



**Question 8(a)(i) – Blank**