

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

Chemistry
PAPER 2
Higher Tier

Tuesday 11 June 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.

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INSTRUCTIONS

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

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Question 1(a)

FIGURE 1

concrete	mixing ratio cement : sand : stone	compressive strength in kPa	example of use
A	1 : 2 : 4	17 250	fence posts
B	1 : 2 : 3	27 600	paving slabs
C	1 : 2 : 2	31 050	flooring

Question 1(a)(iii)

FIGURE 2

KEY

○ oxygen atom

● silicon atom

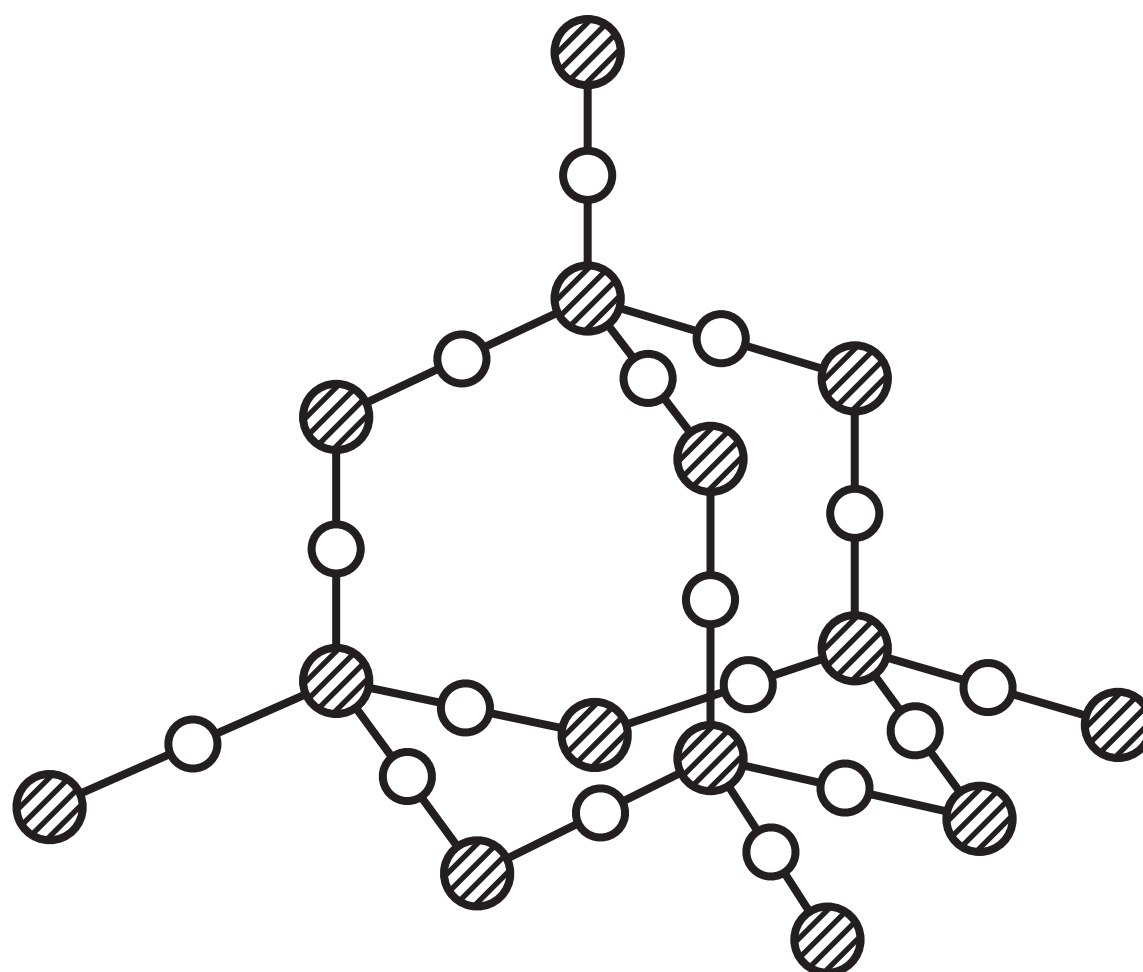
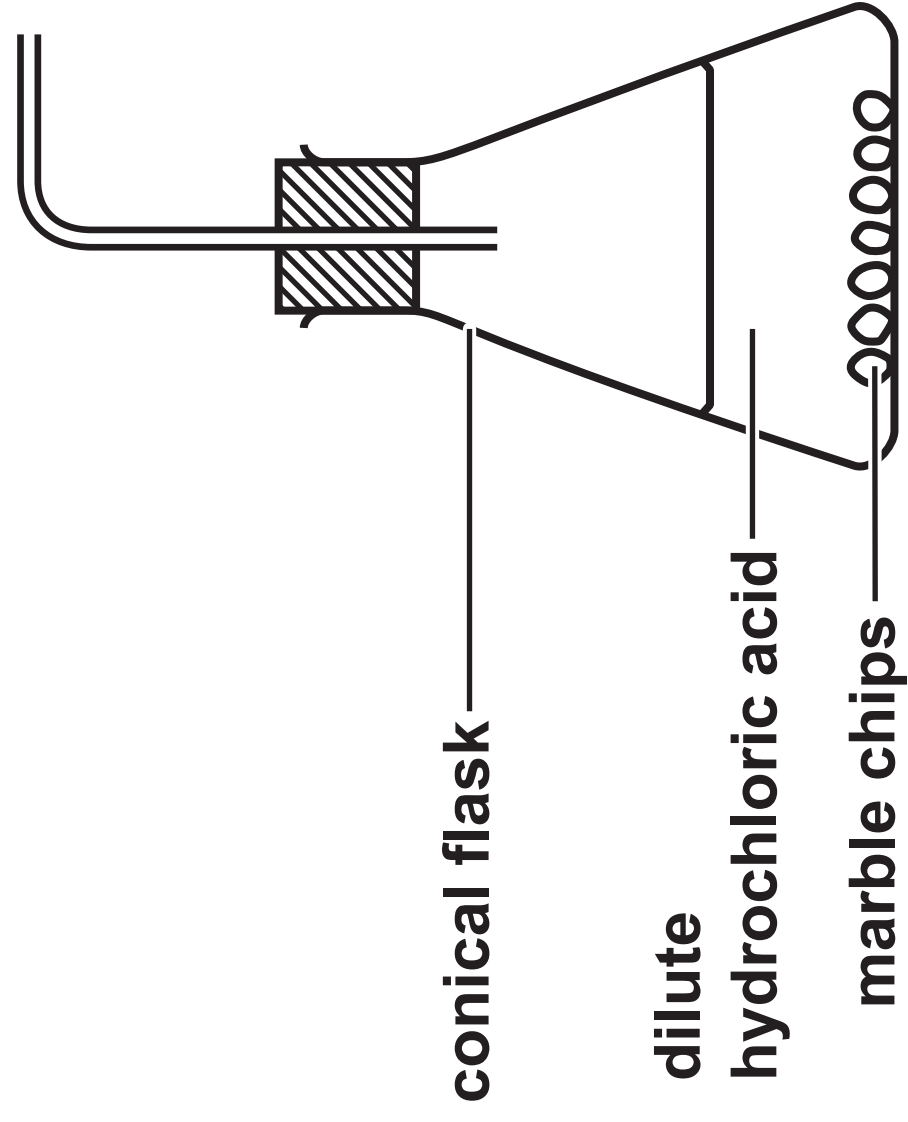


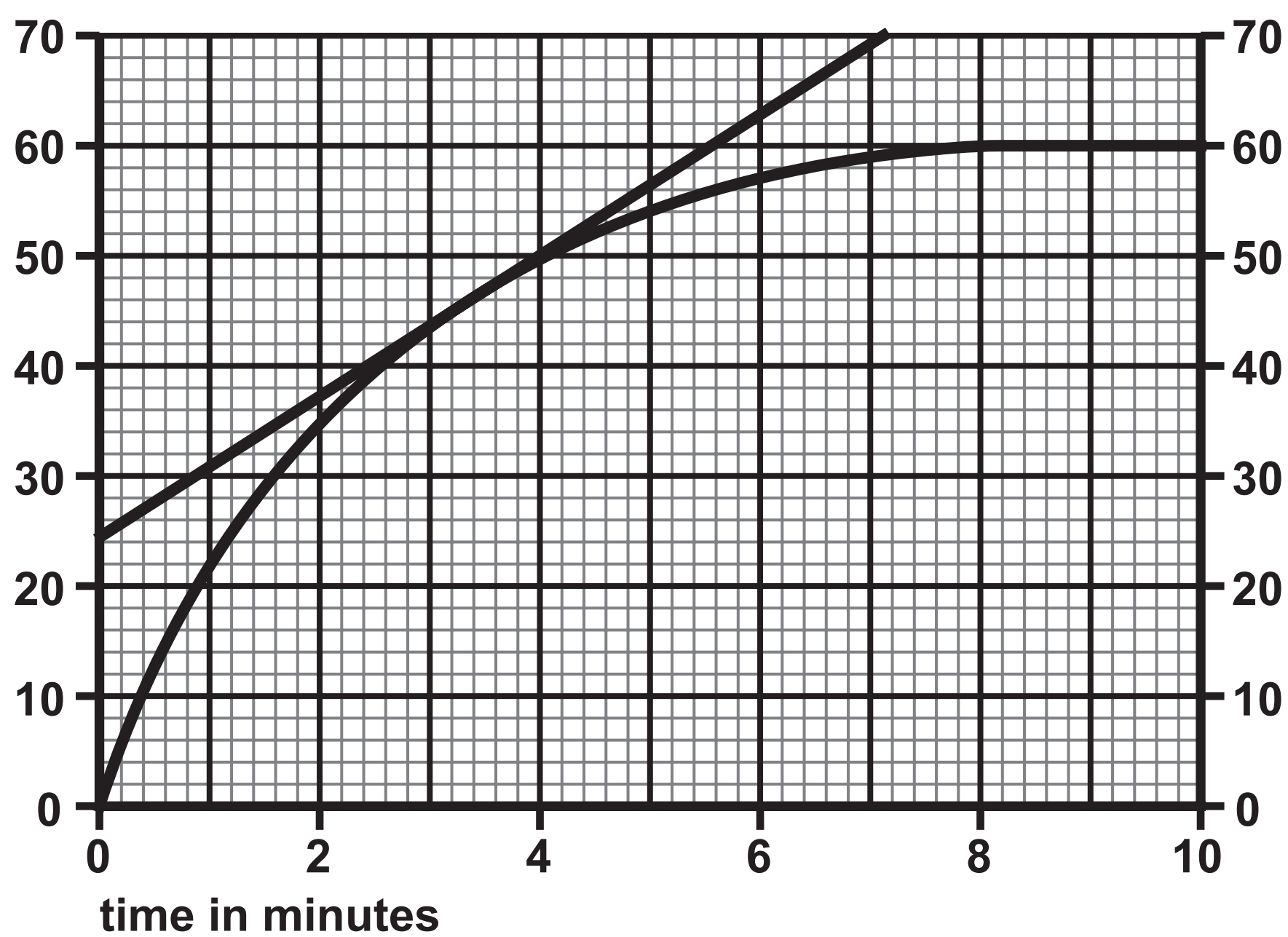
FIGURE 3



Question 2(b)

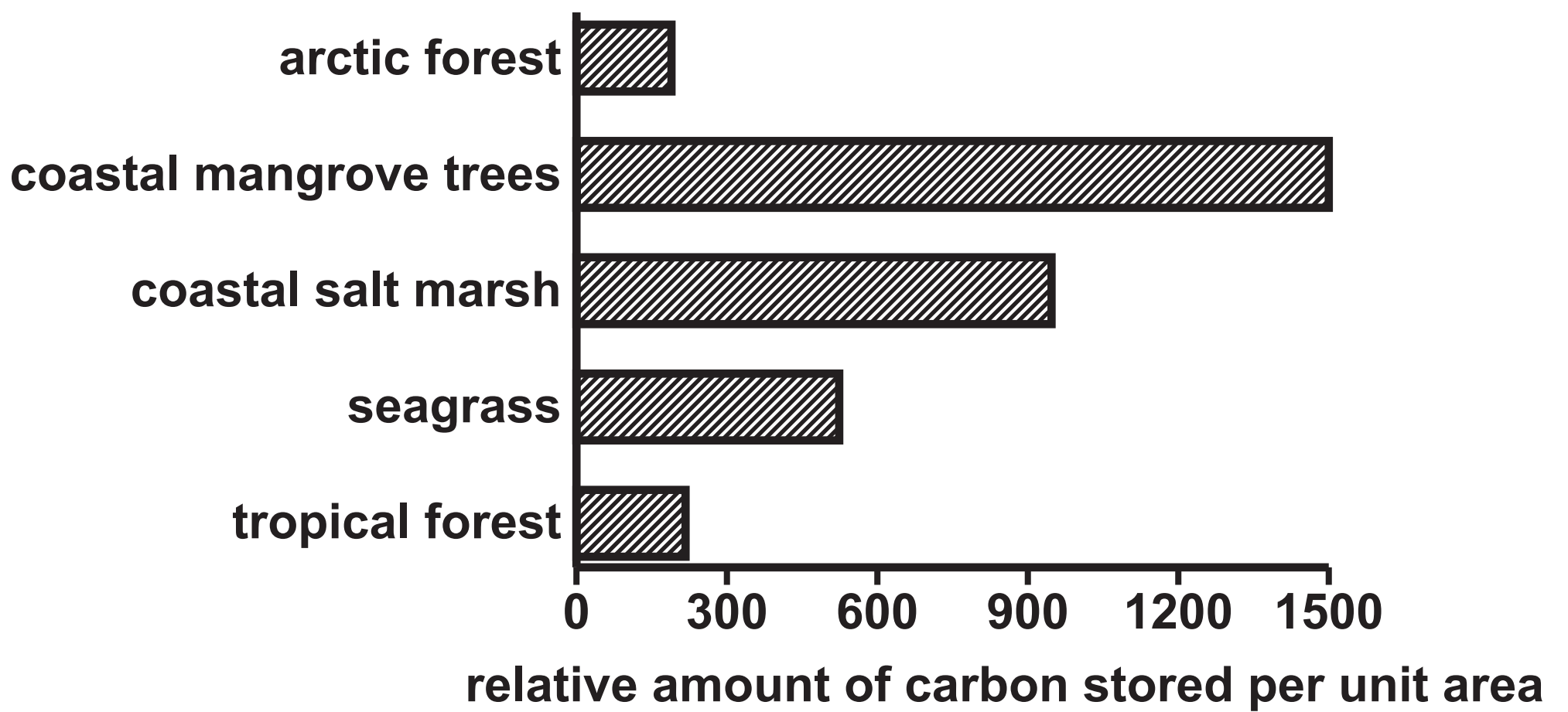
FIGURE 4

volume of carbon dioxide
in cm^3



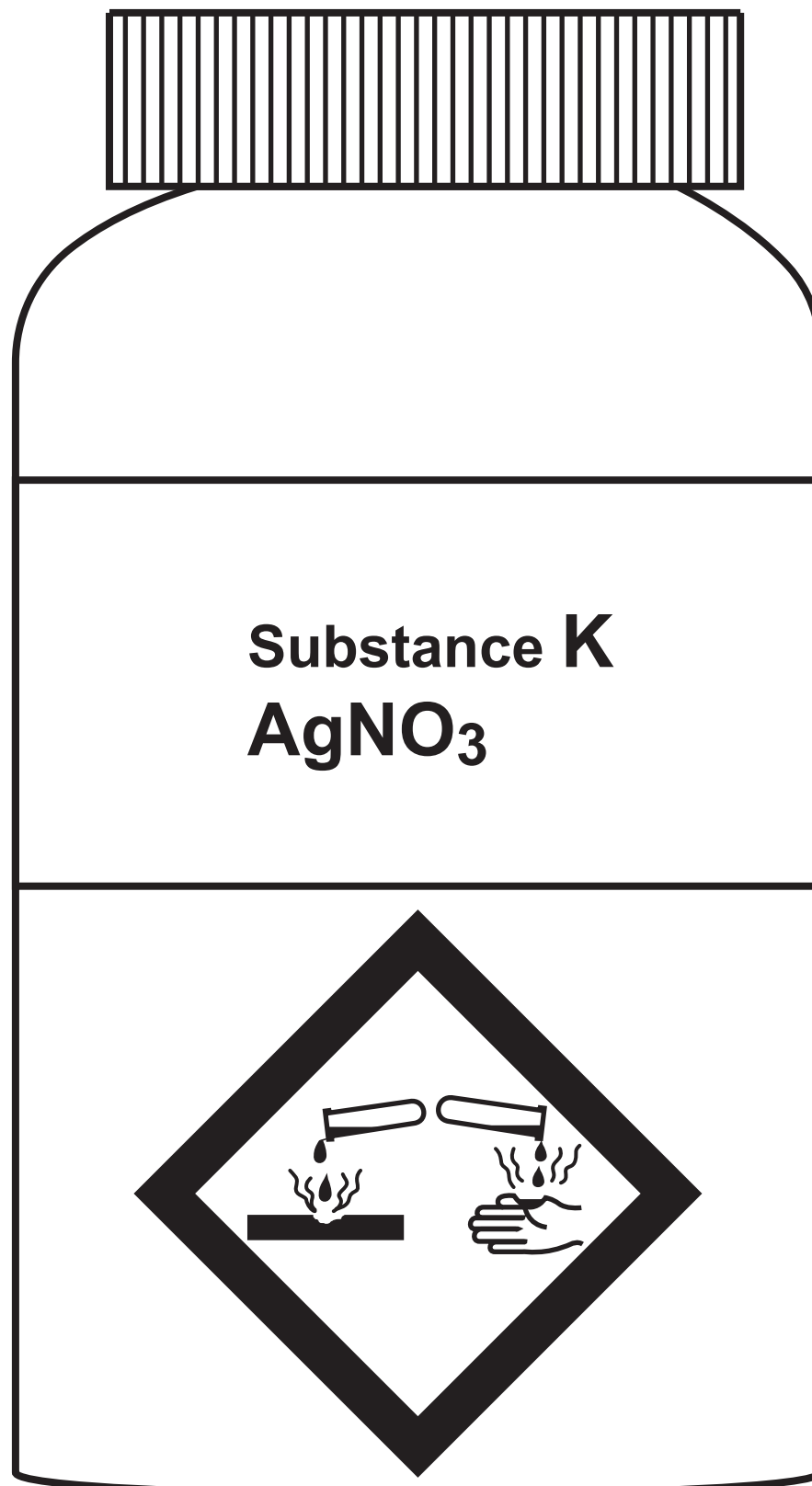
Question 3(d)

FIGURE 5



Question 4(a)

FIGURE 6



Question 4(b)

10

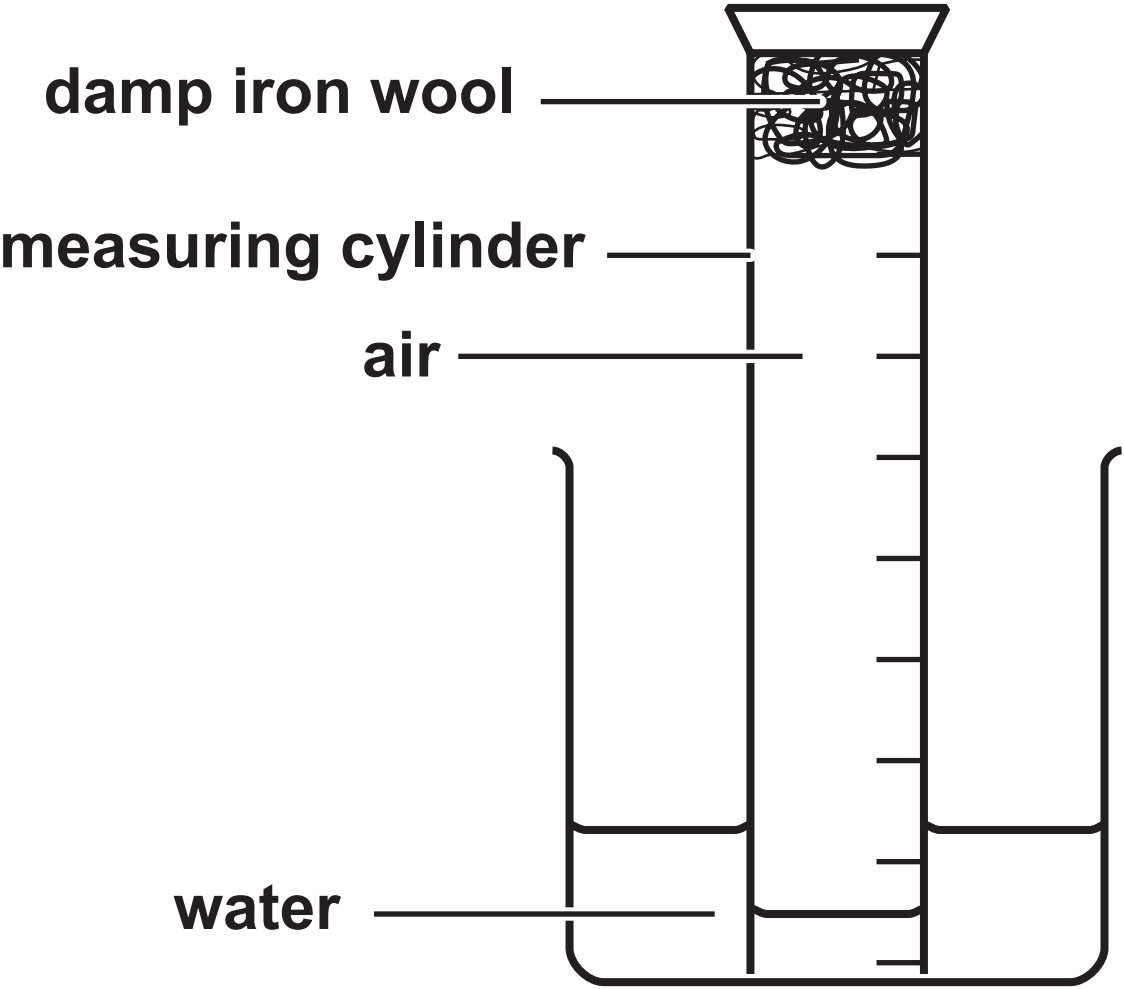


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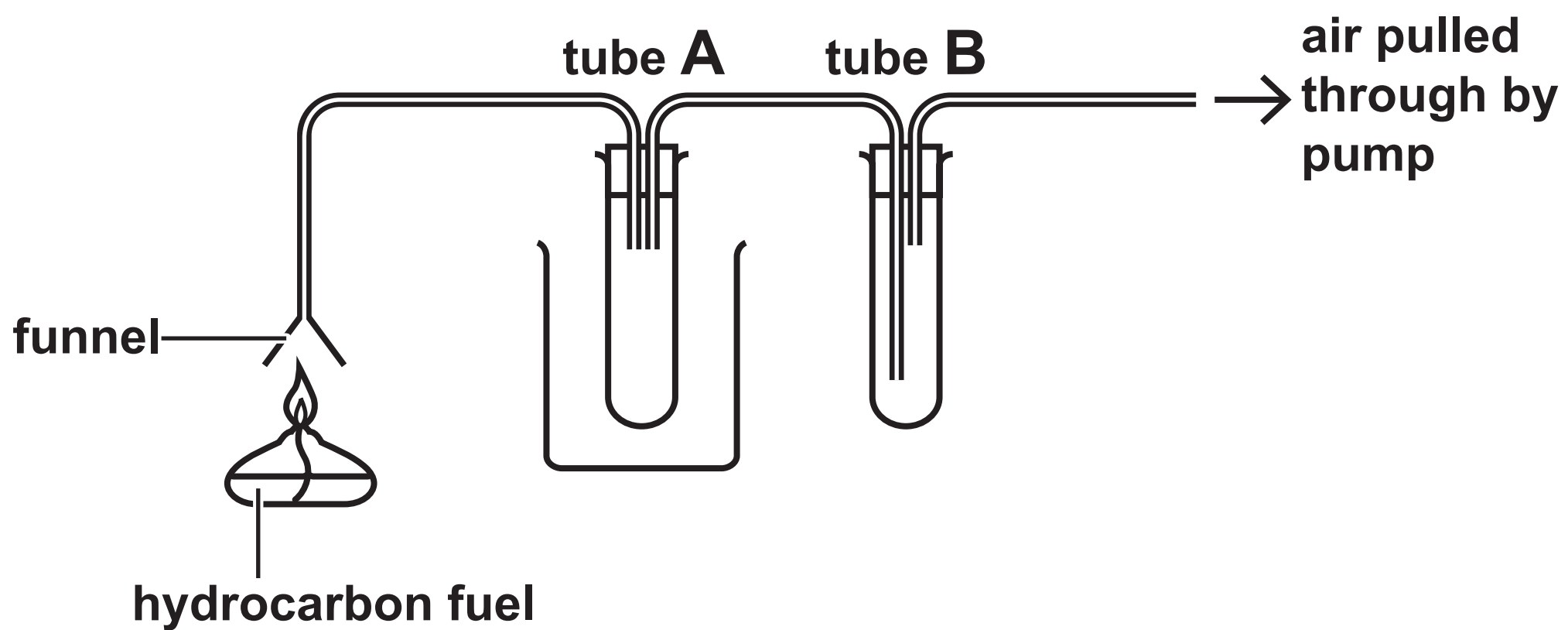
Question 6(a)

FIGURE 7



Question 6(b)(i)

FIGURE 8

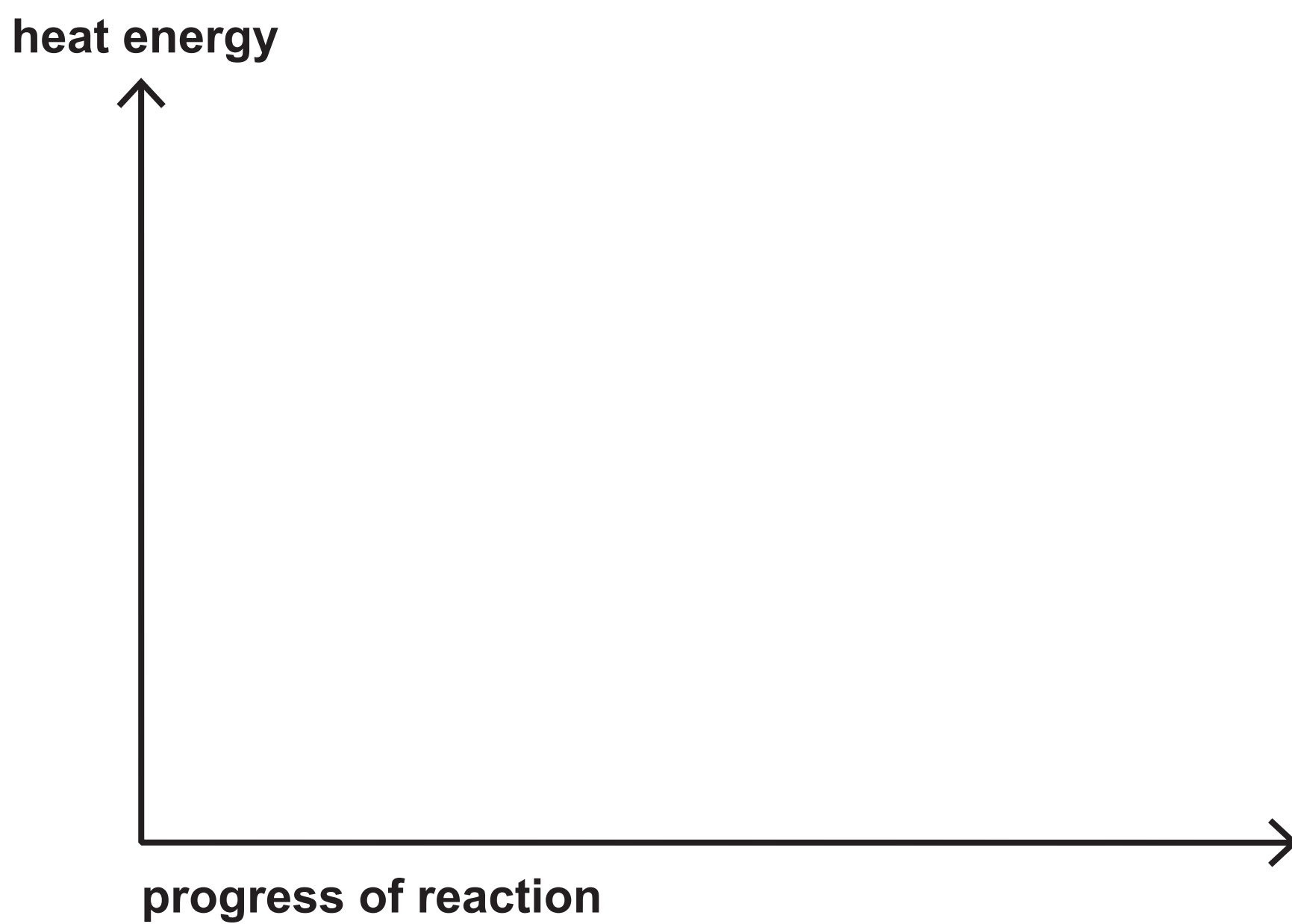


Question 7(b)(i)

_____ AND _____

Question 7(b)(ii)

FIGURE 9



Question 7(d)

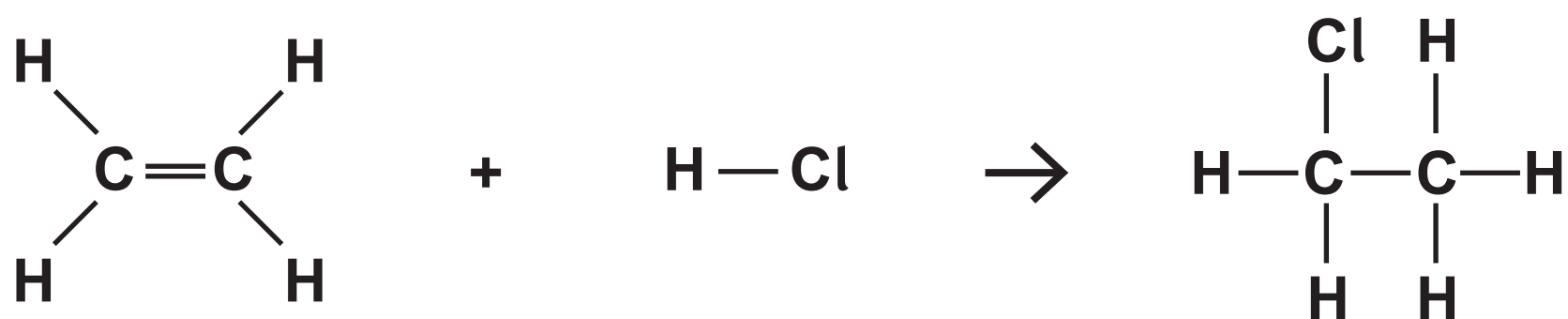


FIGURE 10

bond	bond energy in kJ mol^{-1}
C—H	412
C=C	612
C—C	348
H—Cl	431
C—Cl	338

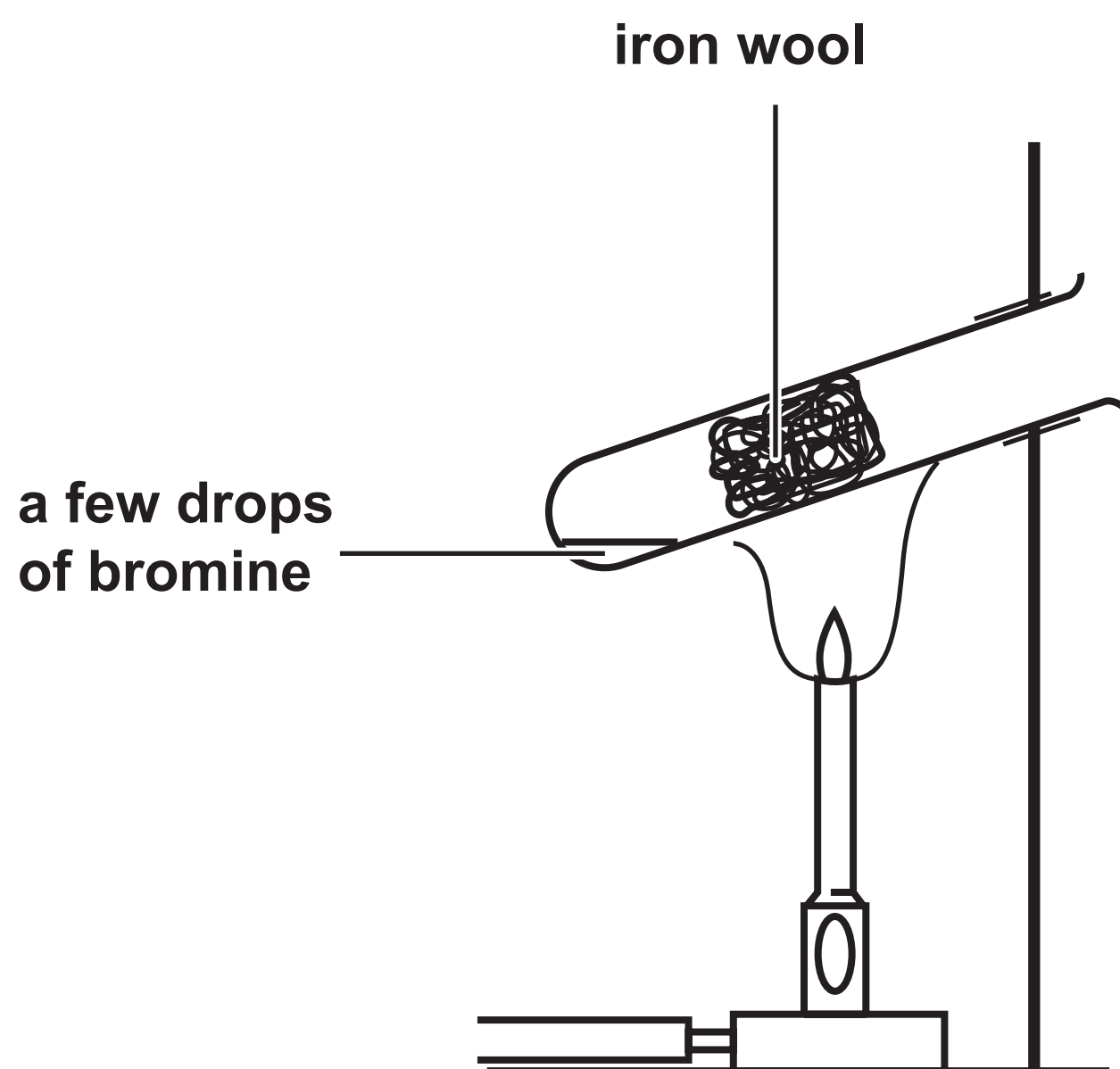
Question 8(c)

FIGURE 11

test	result
add solid R to water and shake	the white solid dissolves to form a colourless solution
add universal indicator to the solution of R	indicator turned blue
flame test with solid R	lilac flame produced
appearance of solution of S	colourless
add universal indicator to solution of S	indicator turns orange
add a small piece of magnesium to solution of S	bubbles of gas released and magnesium disappears
add spatula measure of solid R to solution of S	bubbles of gas released that turn limewater cloudy solid R disappears

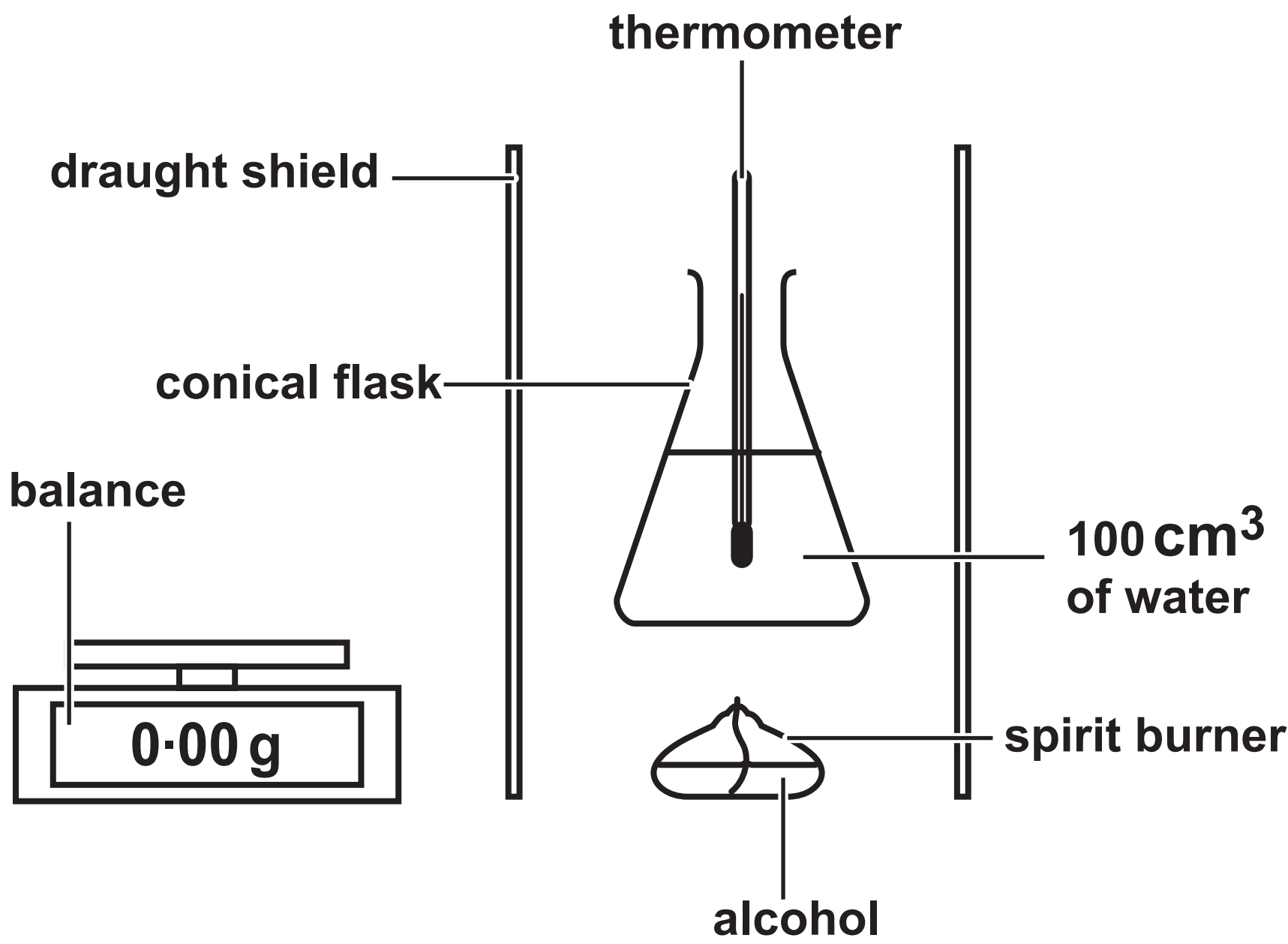
Question 9(b)

FIGURE 12



Question 10(a)

FIGURE 13



Question 10(b)

FIGURE 14

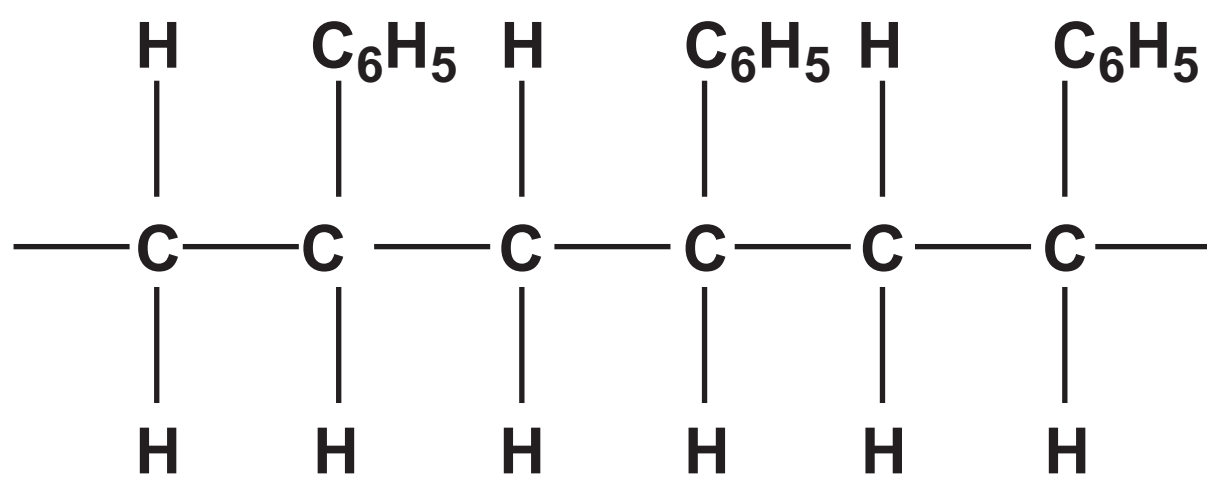
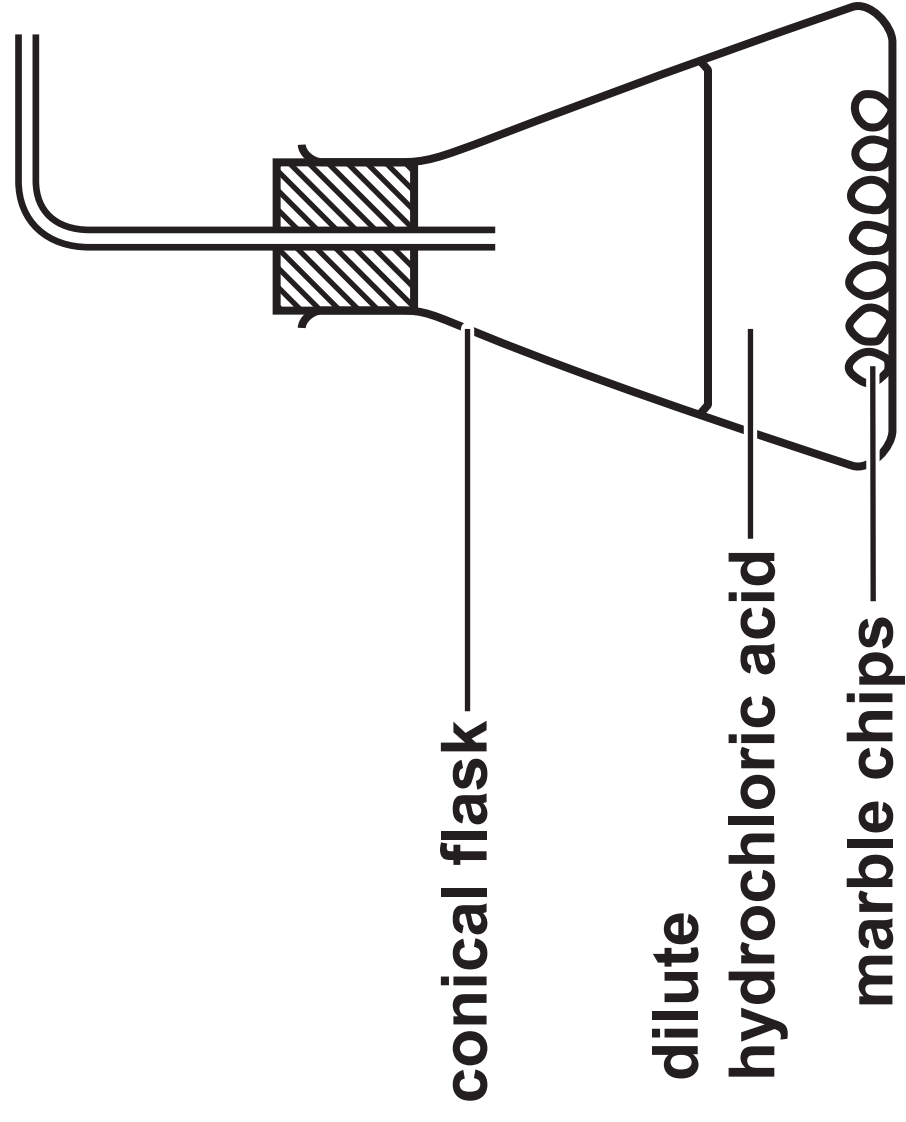


FIGURE 3





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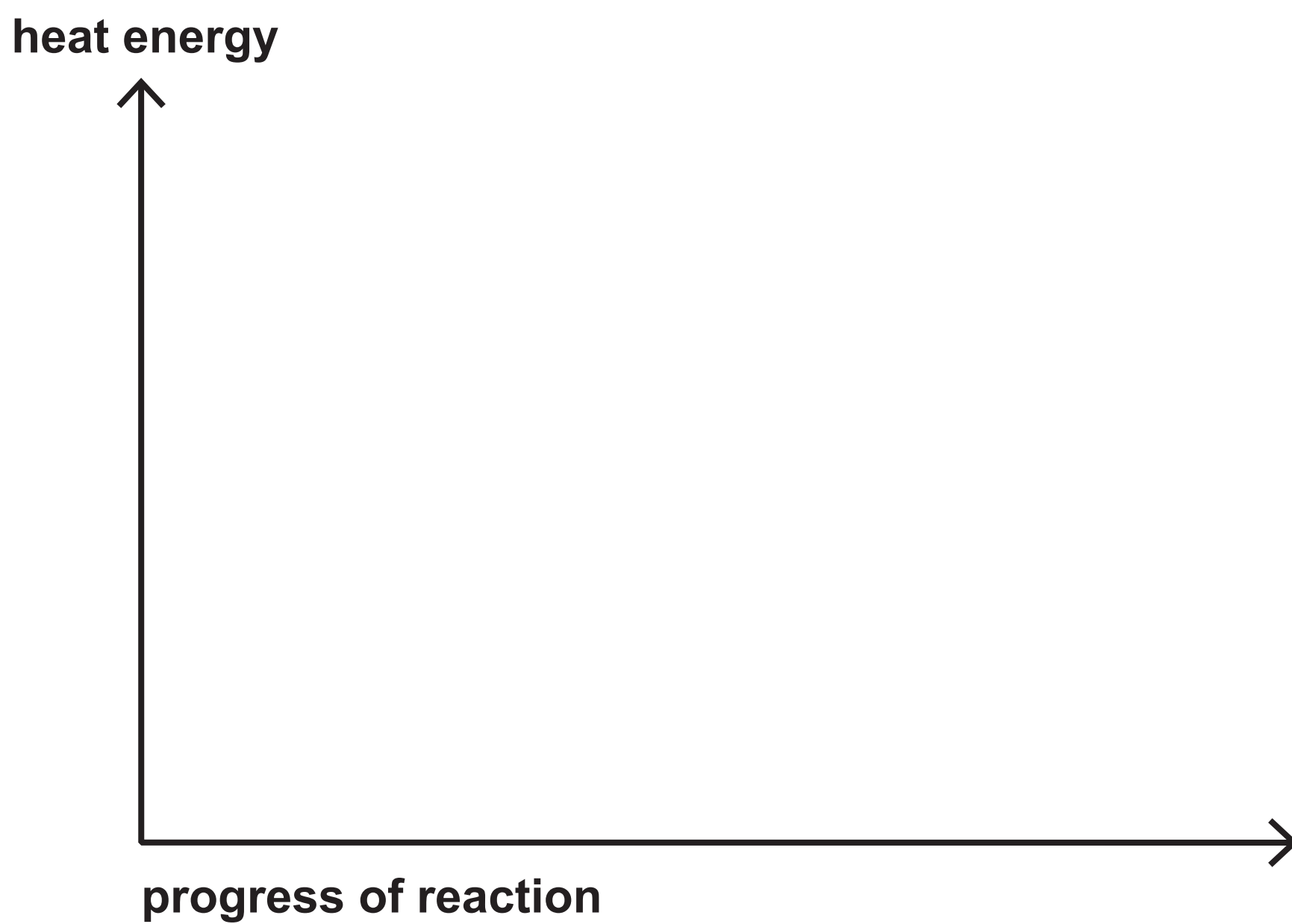
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Question 7(b)(i)

AND

Question 7(b)(ii)

FIGURE 9



Question 10(b)

FIGURE 14

