

Combined Science  
PAPER 5  
Higher 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.**

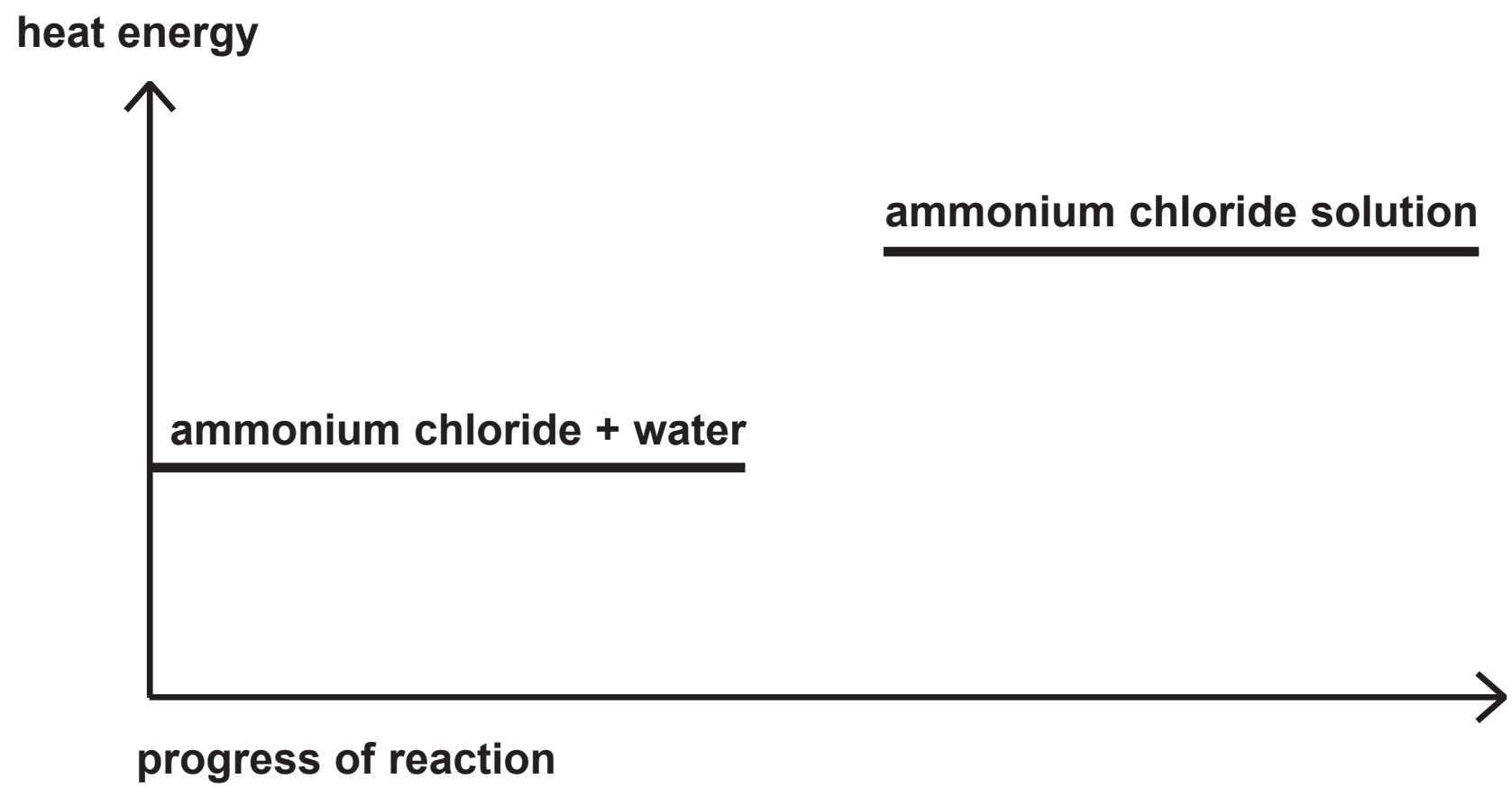
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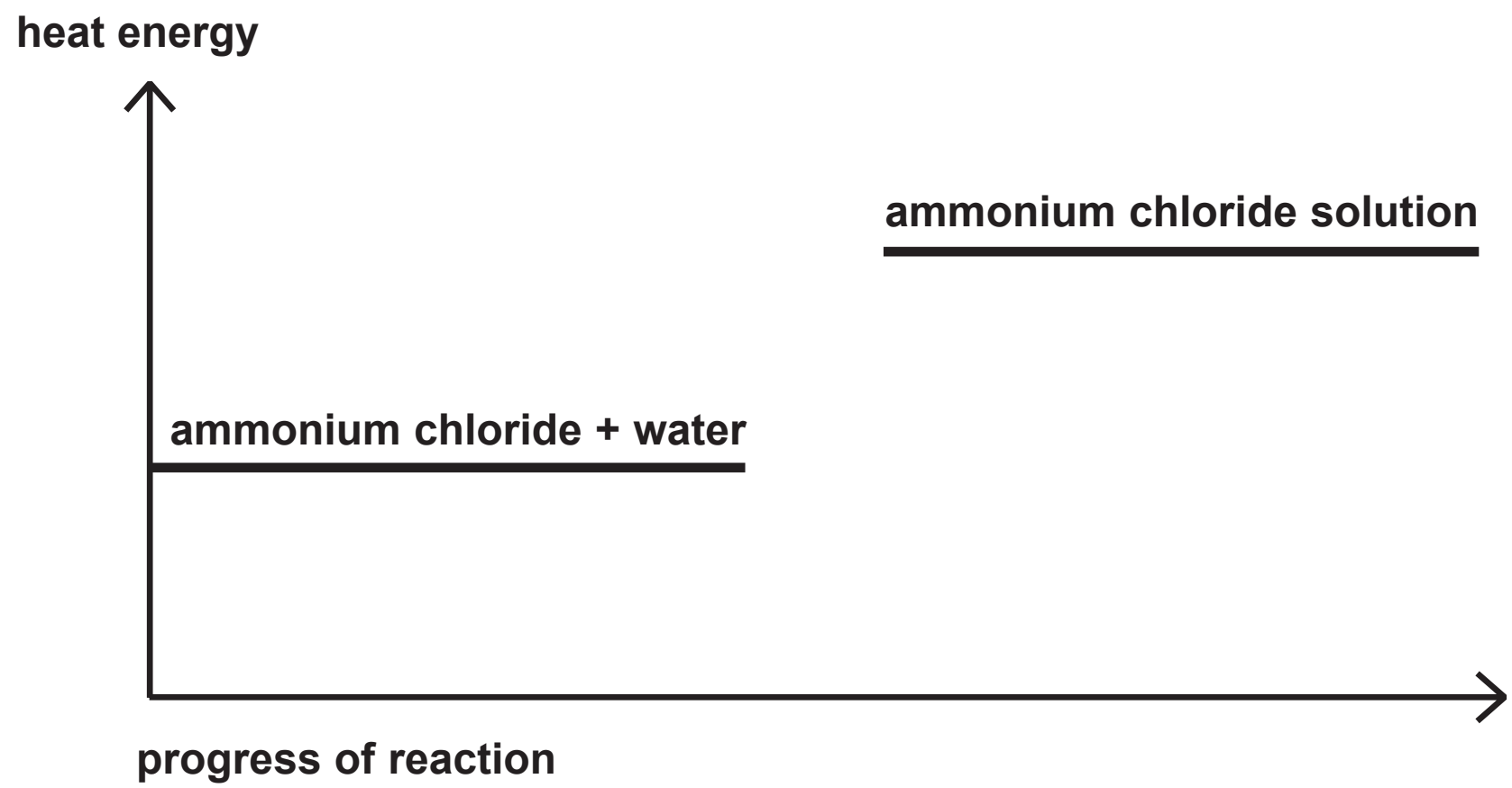
## Question 1(b)

Figure 1



## Question 1(b)

Figure 1



## Question 1(c)

Figure 2

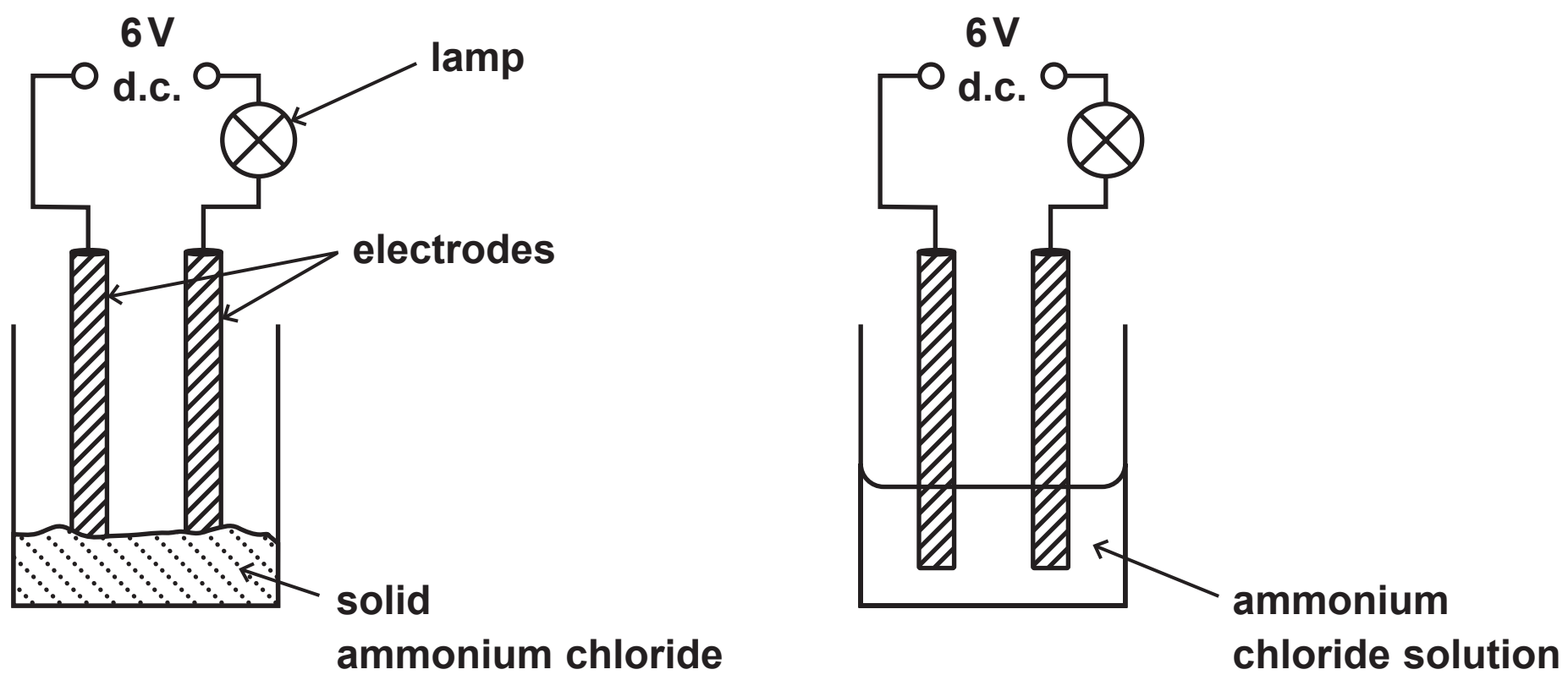
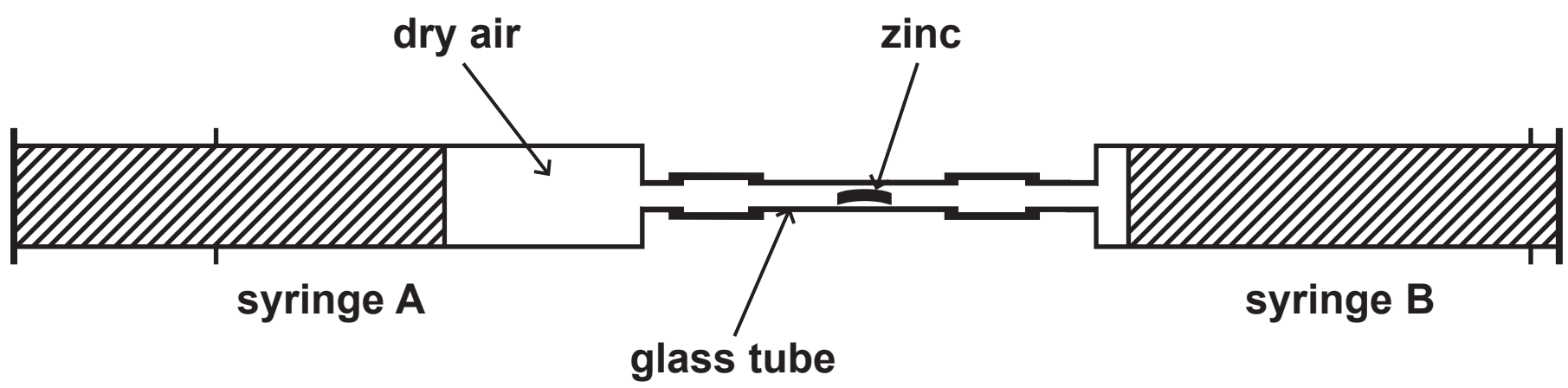


Figure 3

substance	lamp
solid ammonium chloride	did not light up
ammonium chloride solution	lit up brightly

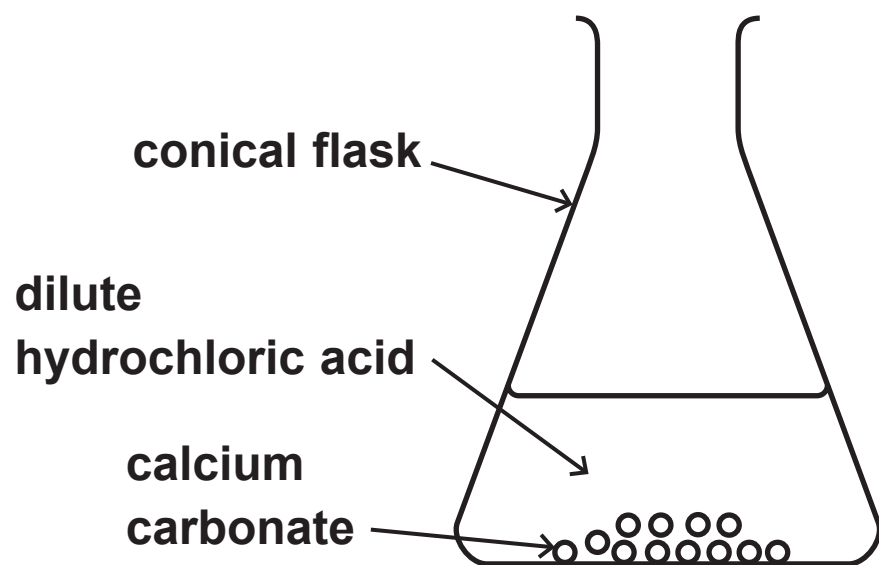
## Question 3(d)

Figure 4



## Question 4(b)

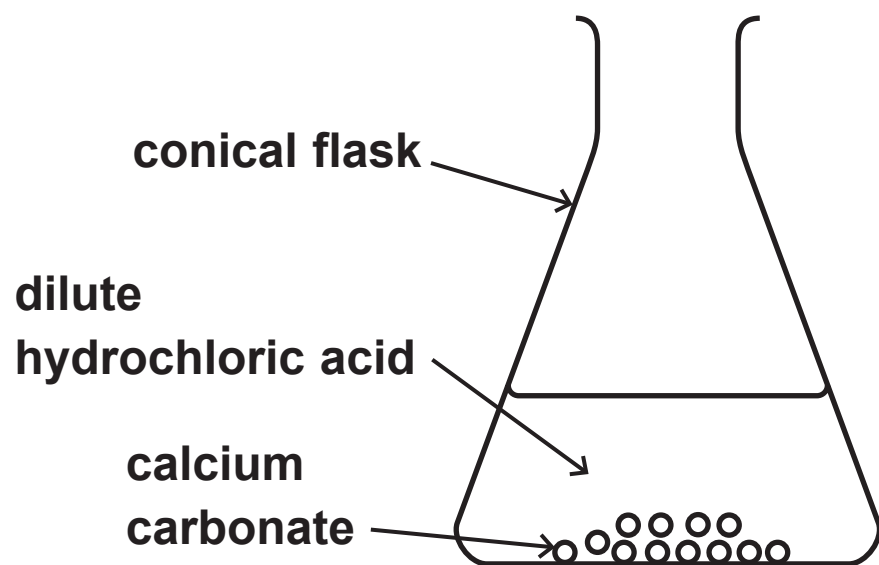
Figure 5





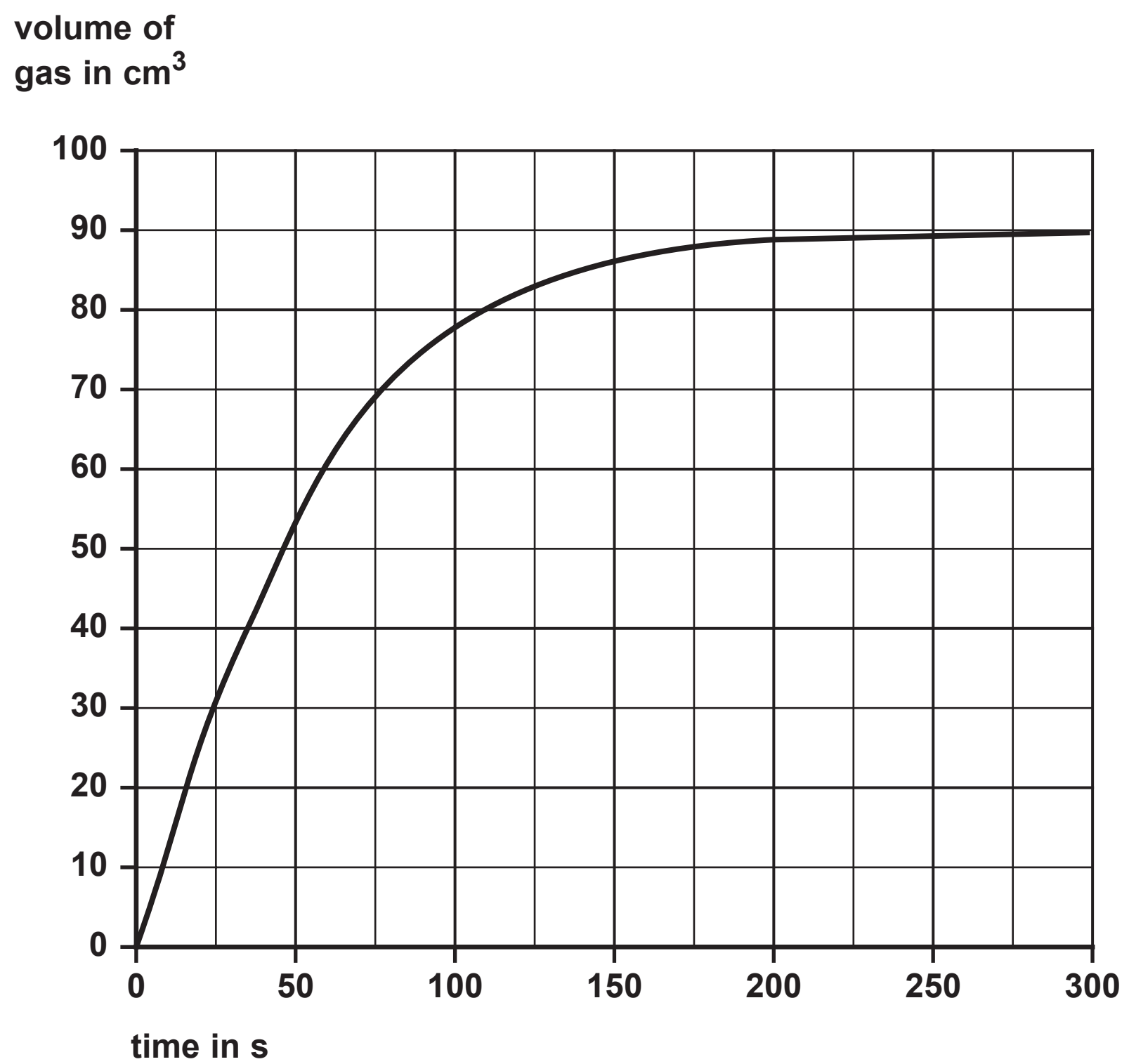
## Question 4(b)

Figure 5



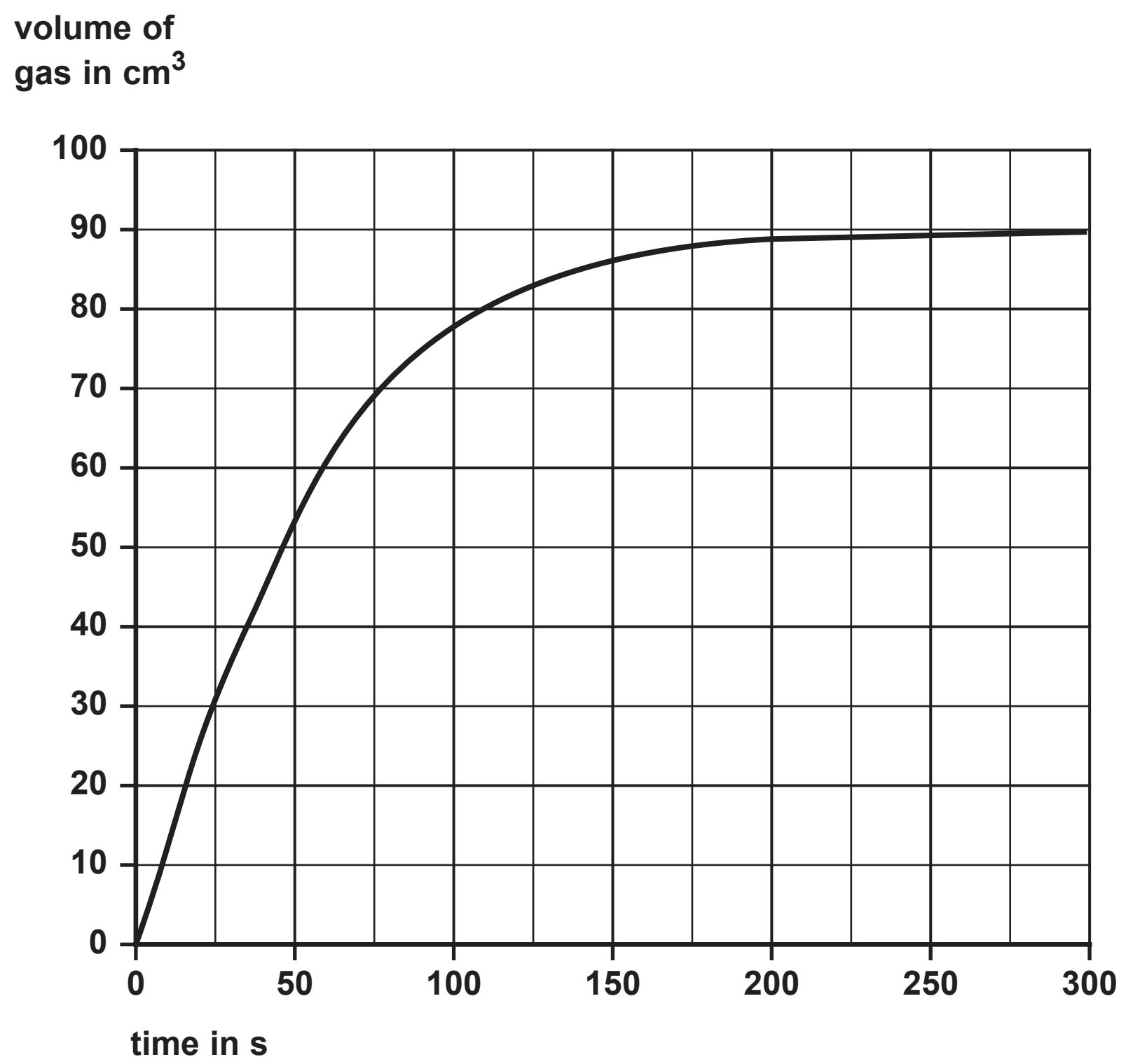
## Question 4(c)(ii)

Figure 6



## Question 4(c)(ii)

Figure 6



## Question \*5(d)

Figure 7

reaction	word equation
<b>W</b>	lithium + chlorine $\longrightarrow$ lithium chloride
<b>X</b>	potassium + fluorine $\longrightarrow$ potassium fluoride
<b>Y</b>	rubidium + iodine $\longrightarrow$ rubidium iodide
<b>Z</b>	potassium + bromine $\longrightarrow$ potassium bromide

## Question 6(c)

Figure 8

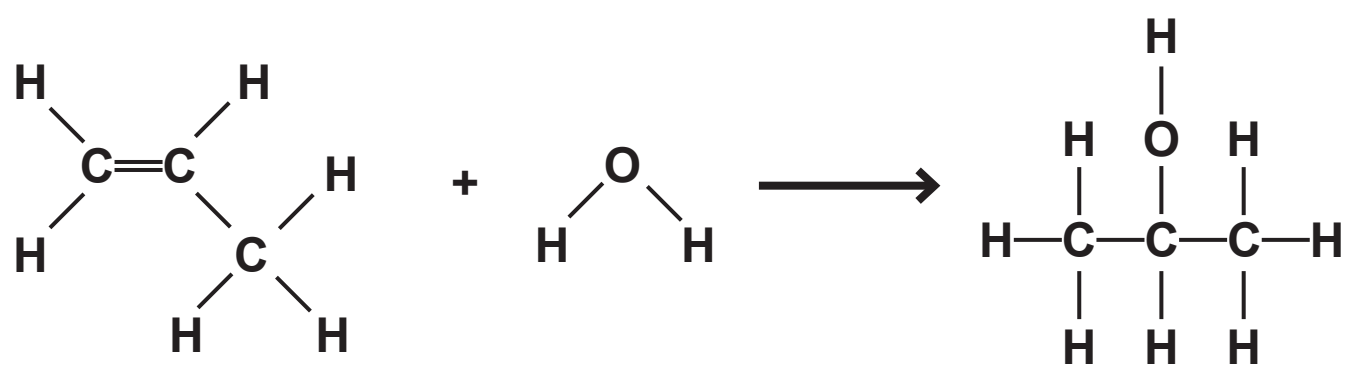


Figure 9

bond	bond energy in $\text{kJ mol}^{-1}$
<b>C—C</b>	<b>347</b>
<b>C—O</b>	<b>358</b>
<b>C—H</b>	<b>413</b>
<b>O—H</b>	<b>464</b>
<b>C=C</b>	<b>612</b>

## Question 6(d)

Figure 10

