

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

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.**

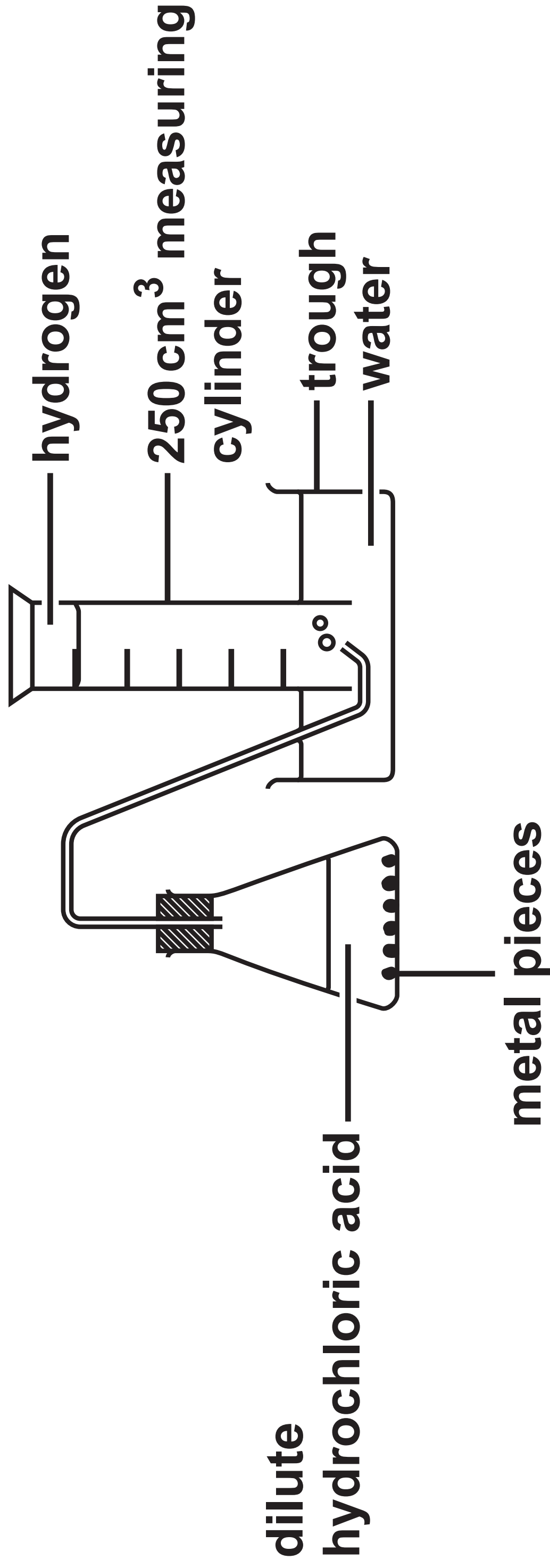
Contents

Page

4	Question 1
5	Question 1(a)
6	Question 2(d)
7	Question 3(a)
8	Question 4(c)
9	Question 5(d)
10	Question 6(a)(i)
11	Question 6(a)(i) (Spare copy)
12	Question 6(a)(ii)
13	Question 6(b)
14	Question 6(b) (Spare copy)

4
Question 1

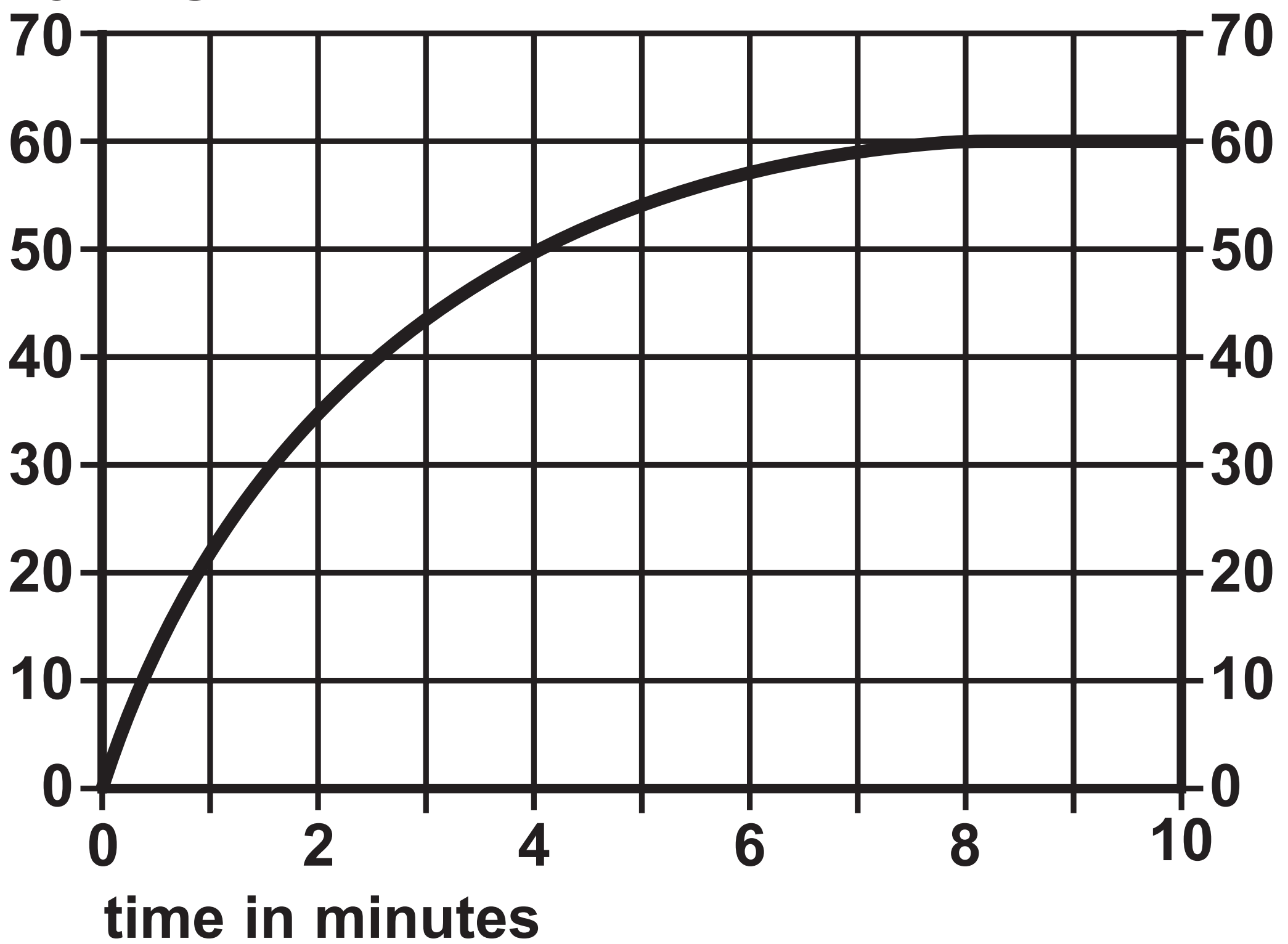
FIGURE 1



Question 1(a)

FIGURE 2

volume of
hydrogen in cm^3



Question 2(d)

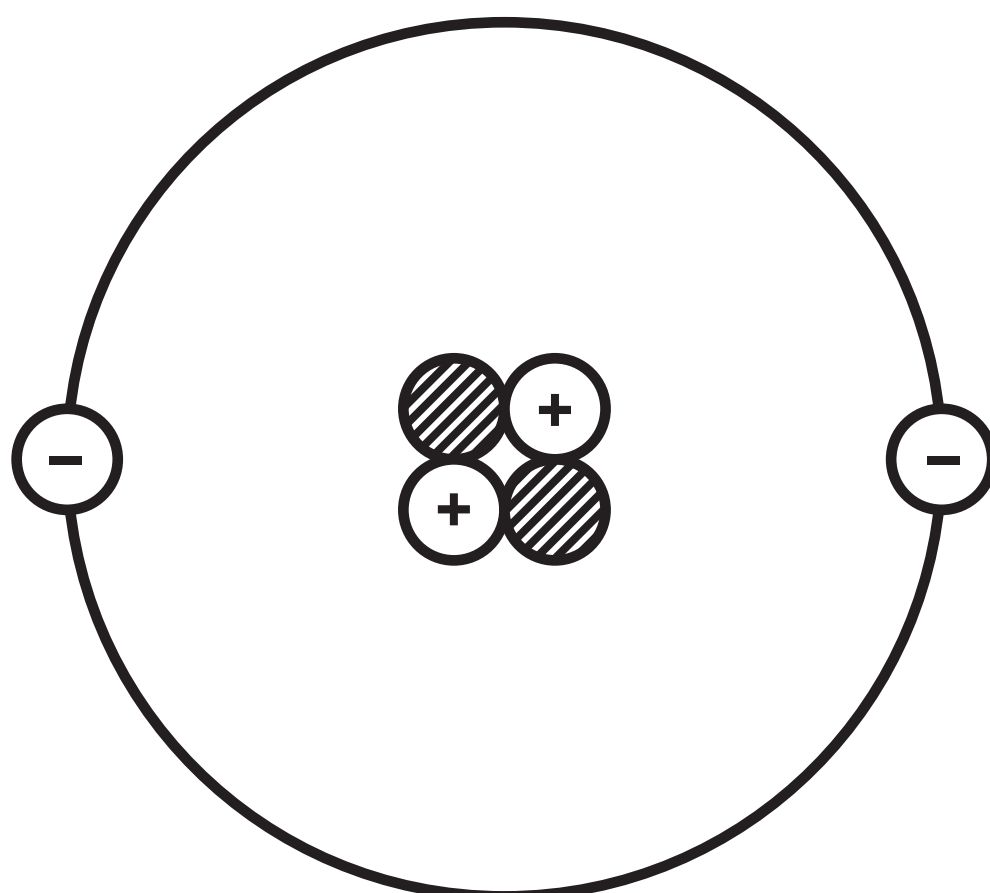
FIGURE 3

Key

⊖ = electron

⊗ = neutron

⊕ = proton

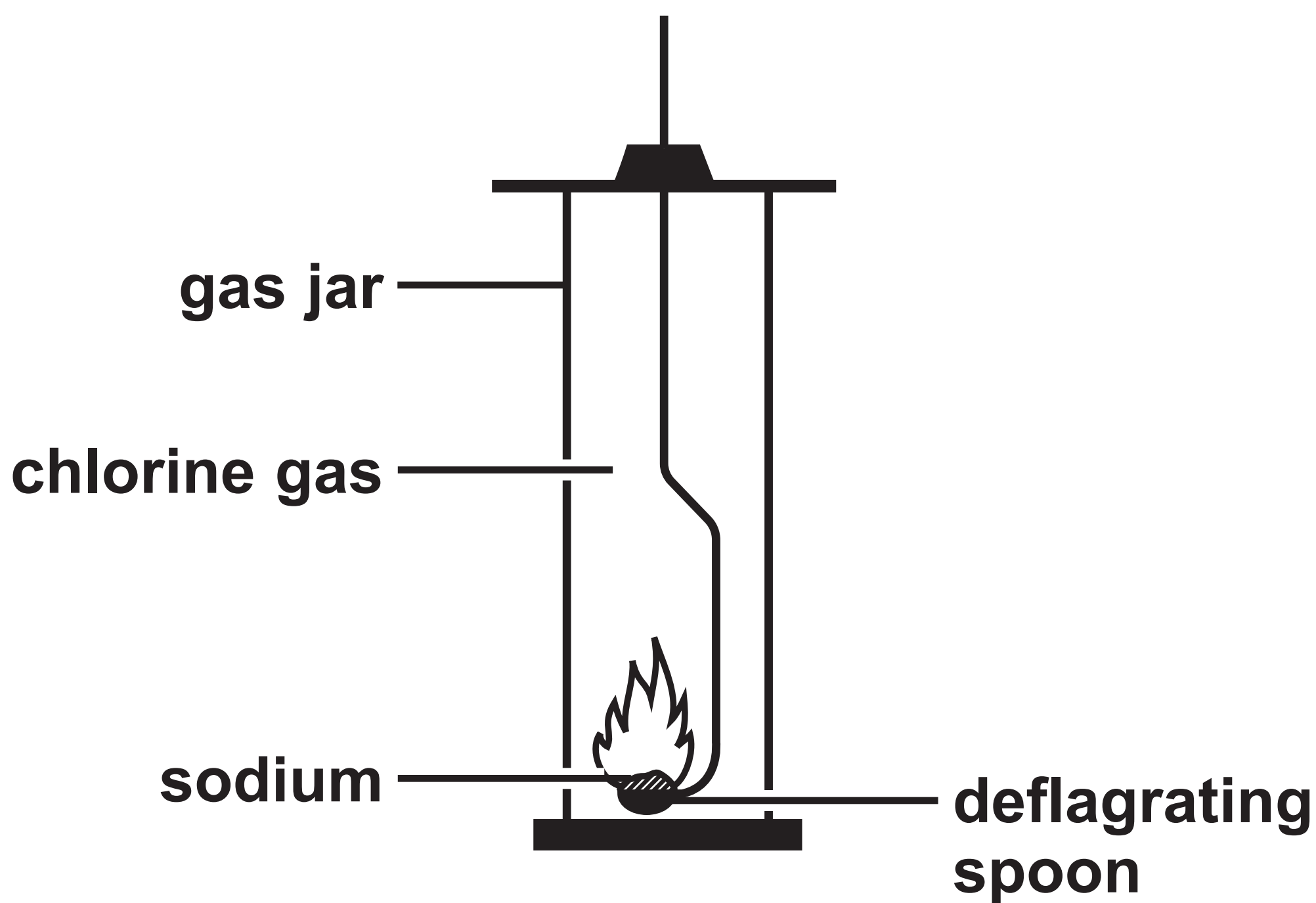


Question 3(a)**FIGURE 4**

pollutant	mass of pollutant given out in g per kilometre driven	
	petrol engine	diesel engine
carbon dioxide	210	180
carbon monoxide	1·5	0·10
unburnt hydrocarbons	0·13	0·020
nitrogen oxides	0·36	2·0
particulates	0·0060	0·046
sulfur dioxide	0·0089	0·0037

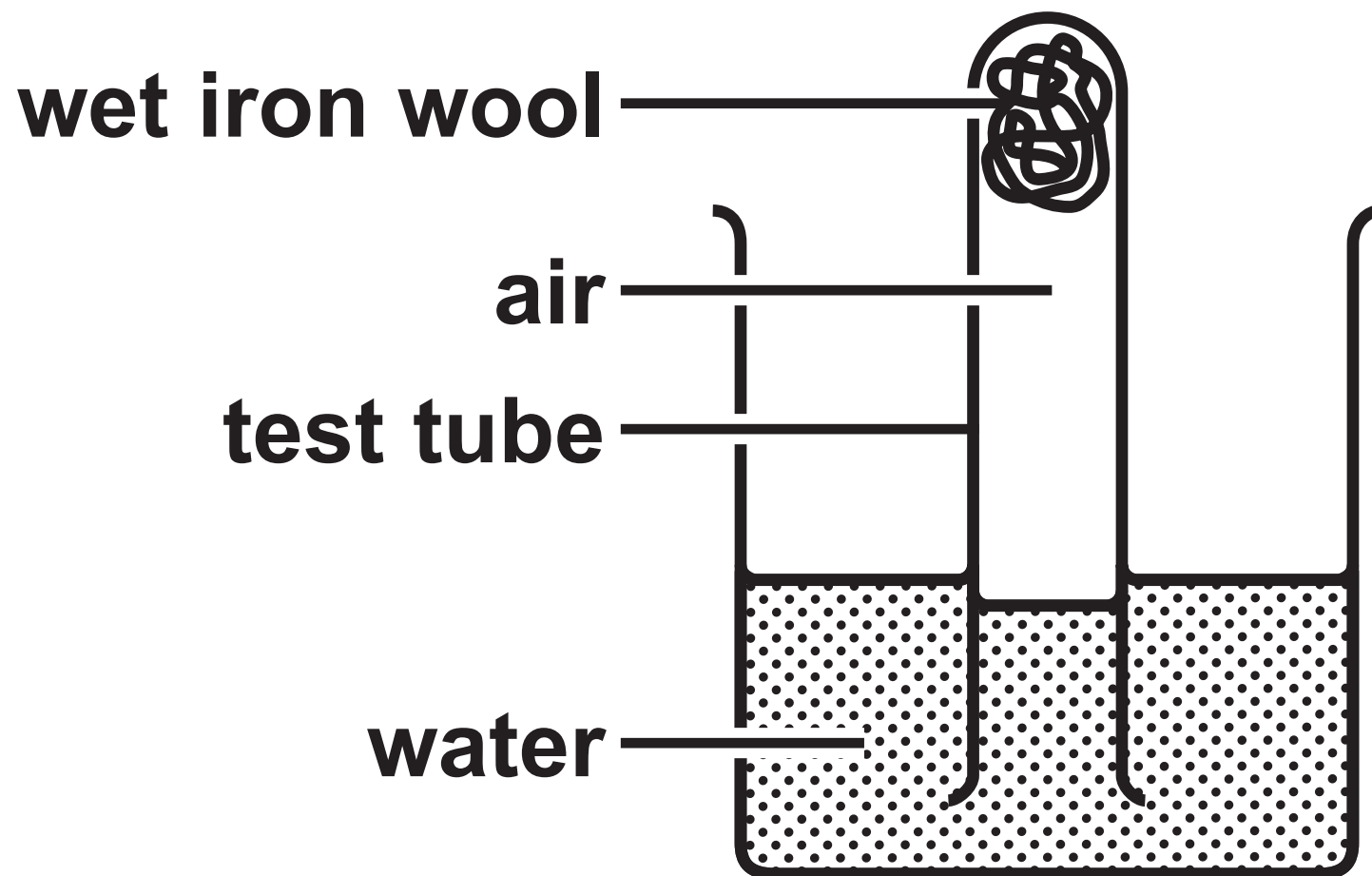
Question 4(c)

FIGURE 5



Question 5(d)

FIGURE 6



Question 6(a)(i)

- ☐ A
- ☐ B
- ☐ C
- ☐ D

energy change	
breaking a bond	making a bond
energy is released	energy is released
energy is released	energy is absorbed
energy is absorbed	energy is released
energy is absorbed	energy is absorbed

Question 6(a)(i)

energy change	
breaking a bond	making a bond
energy is released	energy is released
energy is released	energy is absorbed
energy is absorbed	energy is released
energy is absorbed	energy is absorbed

☐

A

☐

B

☐

C

☐

D

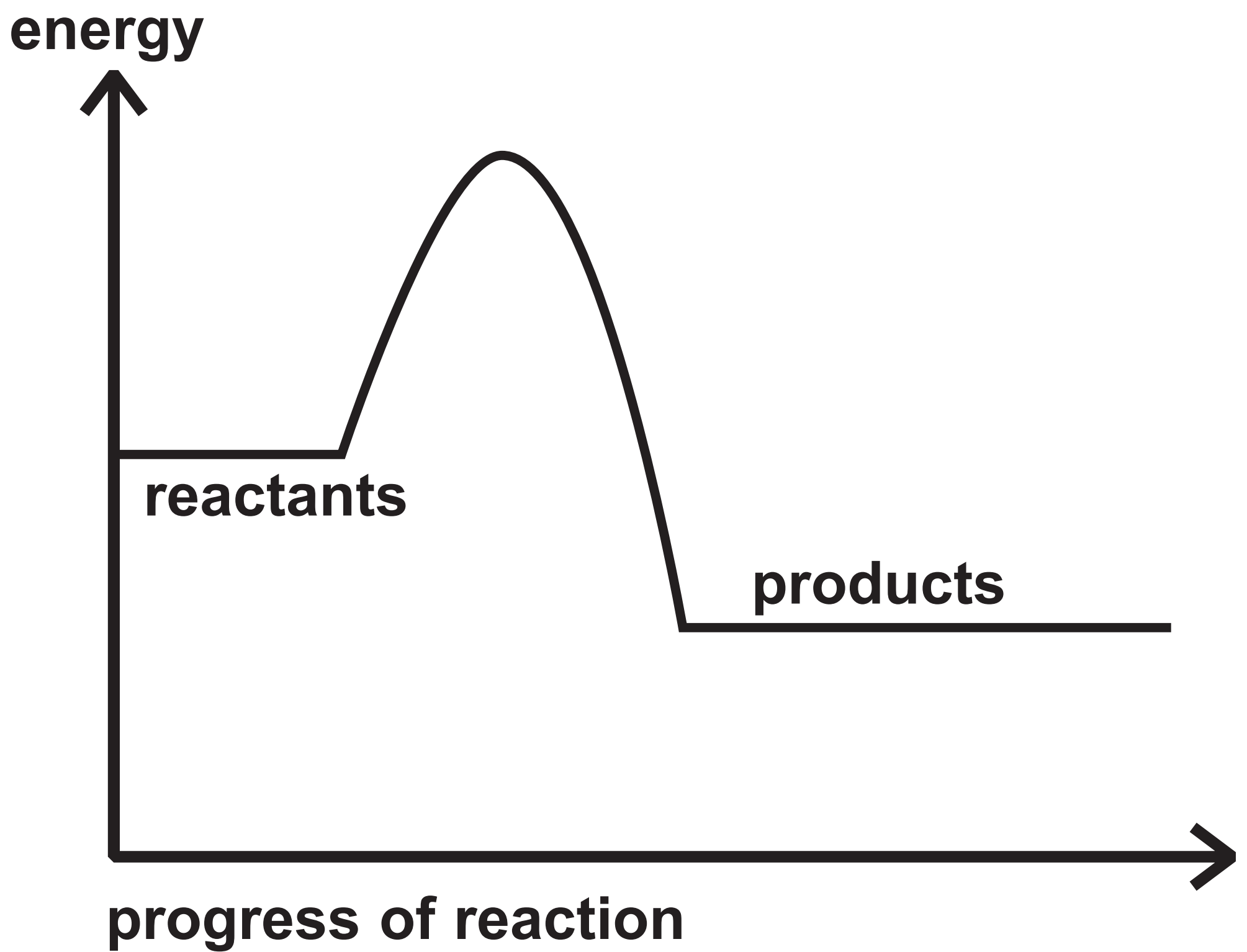
Question 6(a)(ii)

FIGURE 7

bond	bond energy in kJ mol^{-1}
H—H	436
F—F	158
H—F	562

Question 6(b)

FIGURE 8



Question 6(b)

FIGURE 8

