

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

Combined Science
PAPER 5
Higher Tier

Tuesday 13 June 2023 – Morning

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

4–5 Question 1

6 Question 1(a)

7 Question 1(b)

8 Question 2

9 Question 3(a)

10 Question 4

11 Question 4(a)

12 Question 5(b)

13 Question 5(b)(iii)

14 Question 6(a)

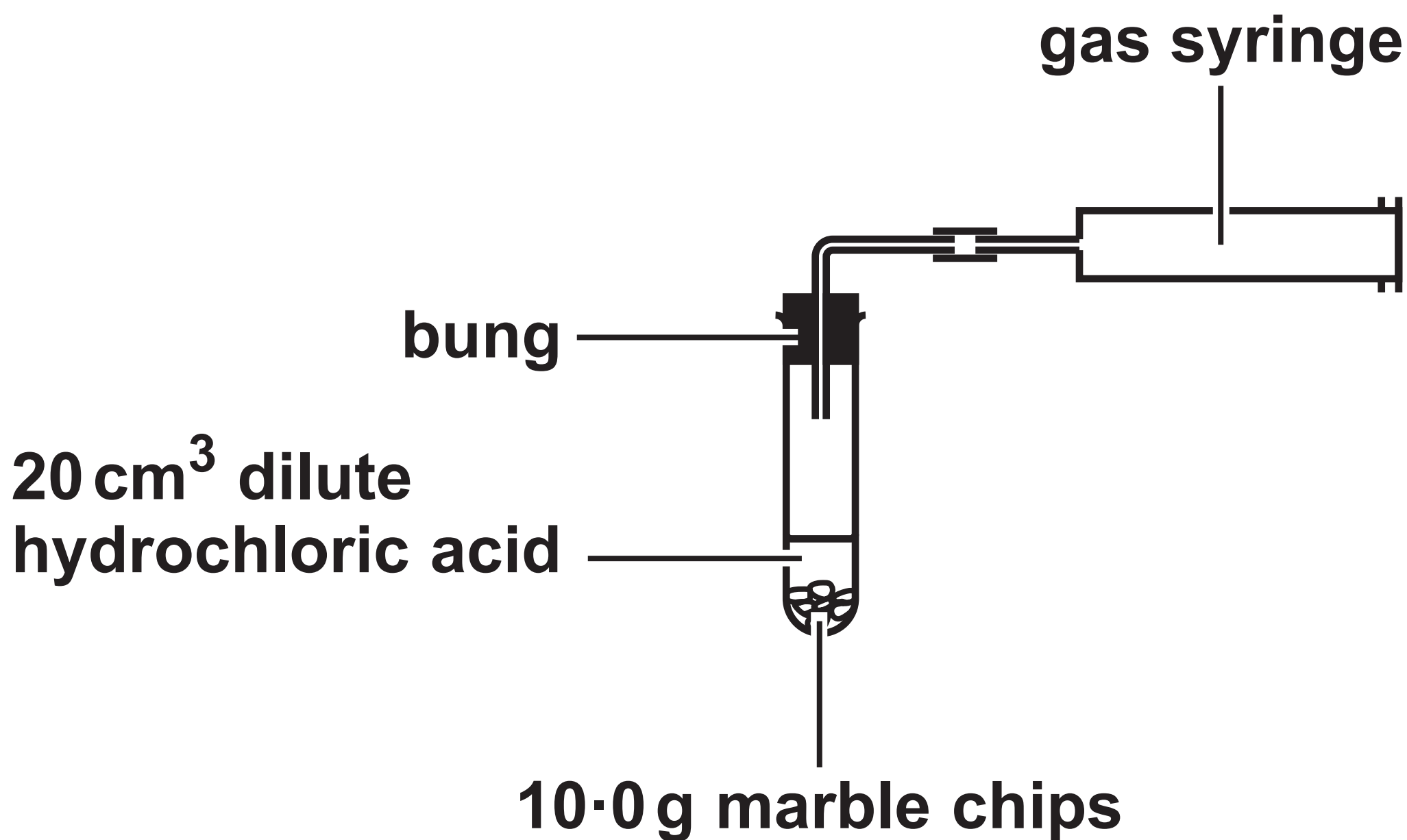
15 Question 6(c)

Spare Copies

16 Question 1(a)

Question 1

FIGURE 1



(continued on the next page)

FIGURE 2

time in minutes	0	1	2	3	4	5	6
volume of gas in cm ³	0	52	78	91	97	100	100

Question 1(a)

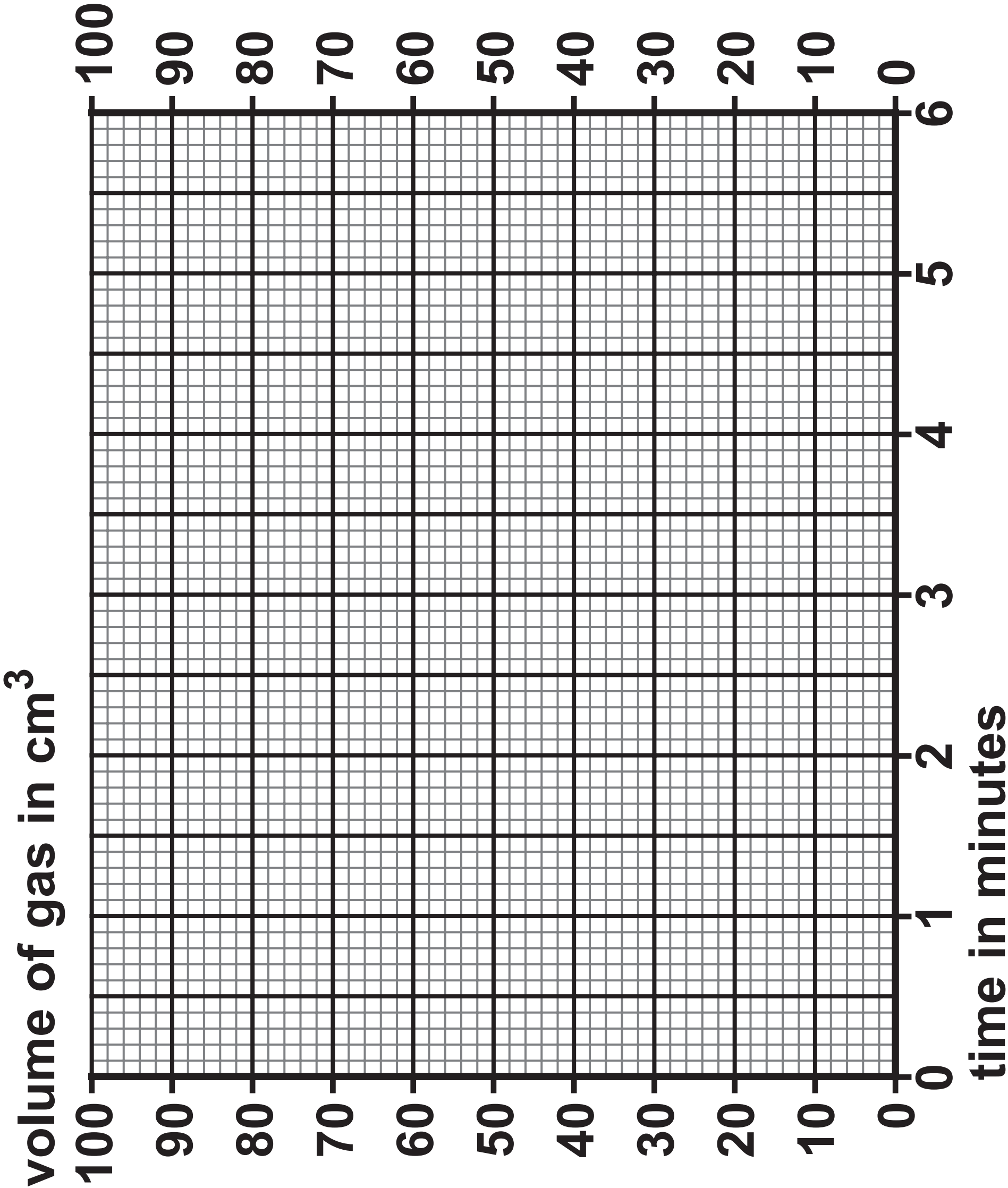


FIGURE 3

time interval	0 to 1 minute	1 to 2 minutes	2 to 3 minutes	3 to 4 minutes	4 to 5 minutes
rate of reaction in $\text{cm}^3 \text{min}^{-1}$	52	26		6	3

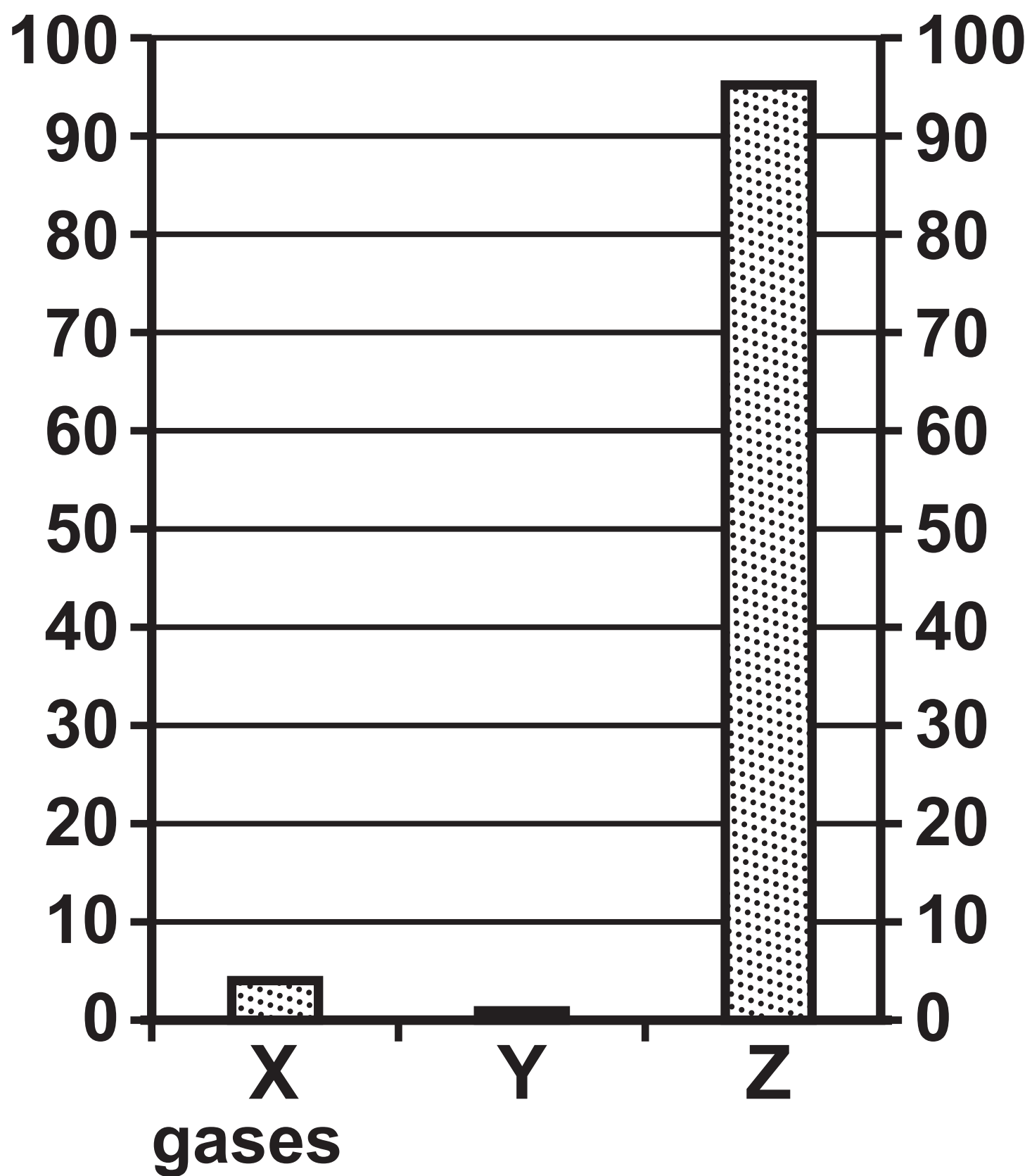
FIGURE 4

group 1 metal	atomic number	relative atomic mass
lithium	3	7
sodium	11	23
potassium	19	39
rubidium	37	85
caesium	55	133

Question 3(a)

FIGURE 5

**percentage of gas in
Earth's early atmosphere**



Question 4

FIGURE 6

concentrated
hydrochloric acid

delivery tube

moist blue
litmus paper

mineral wool

potassium
manganate(VII)

gas jar

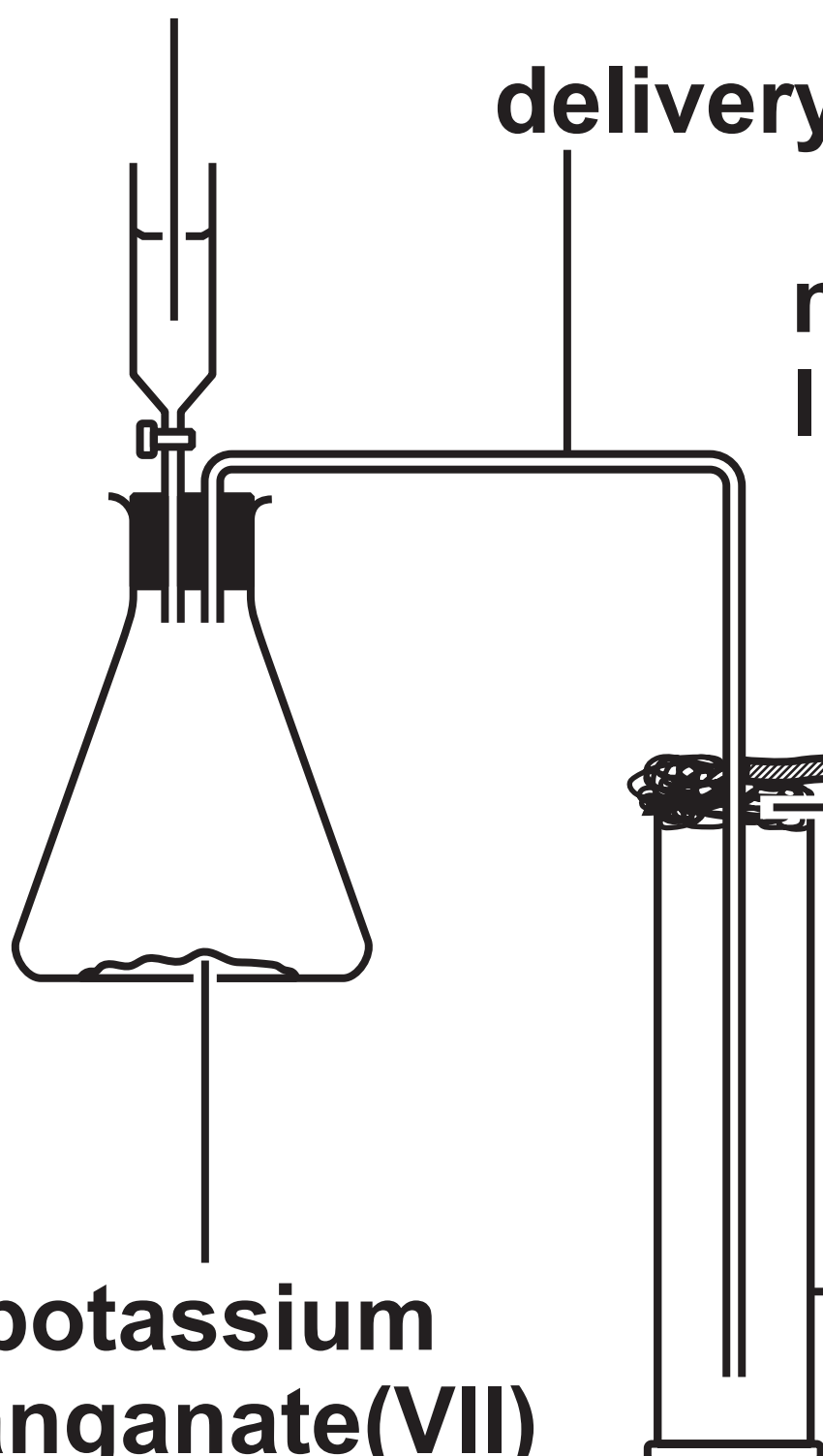







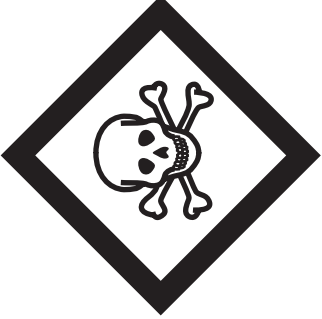

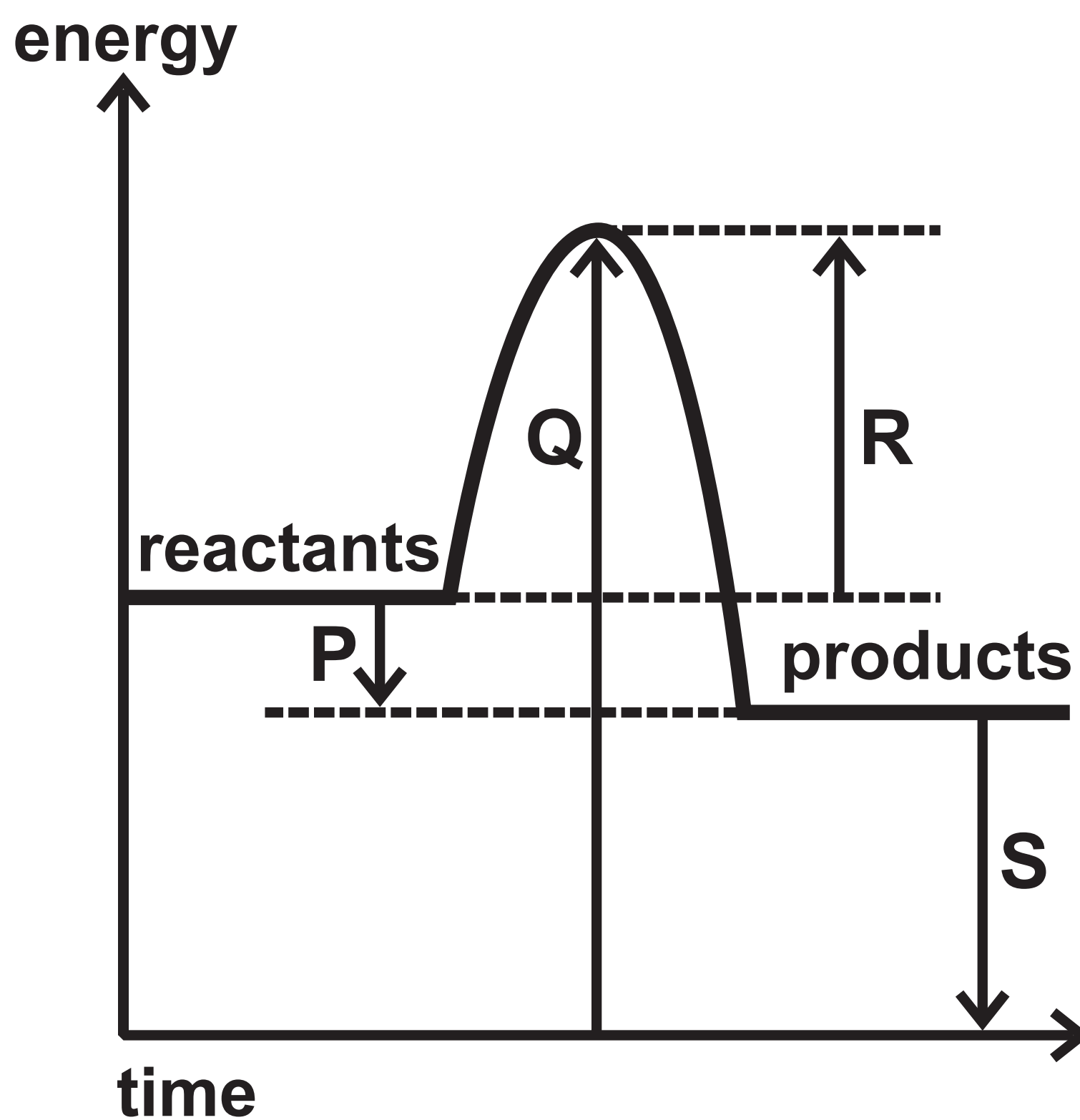


FIGURE 7

substance	hazard symbol		
concentrated hydrochloric acid			
potassium manganate(VII)			
chlorine gas			

Question 5(b)

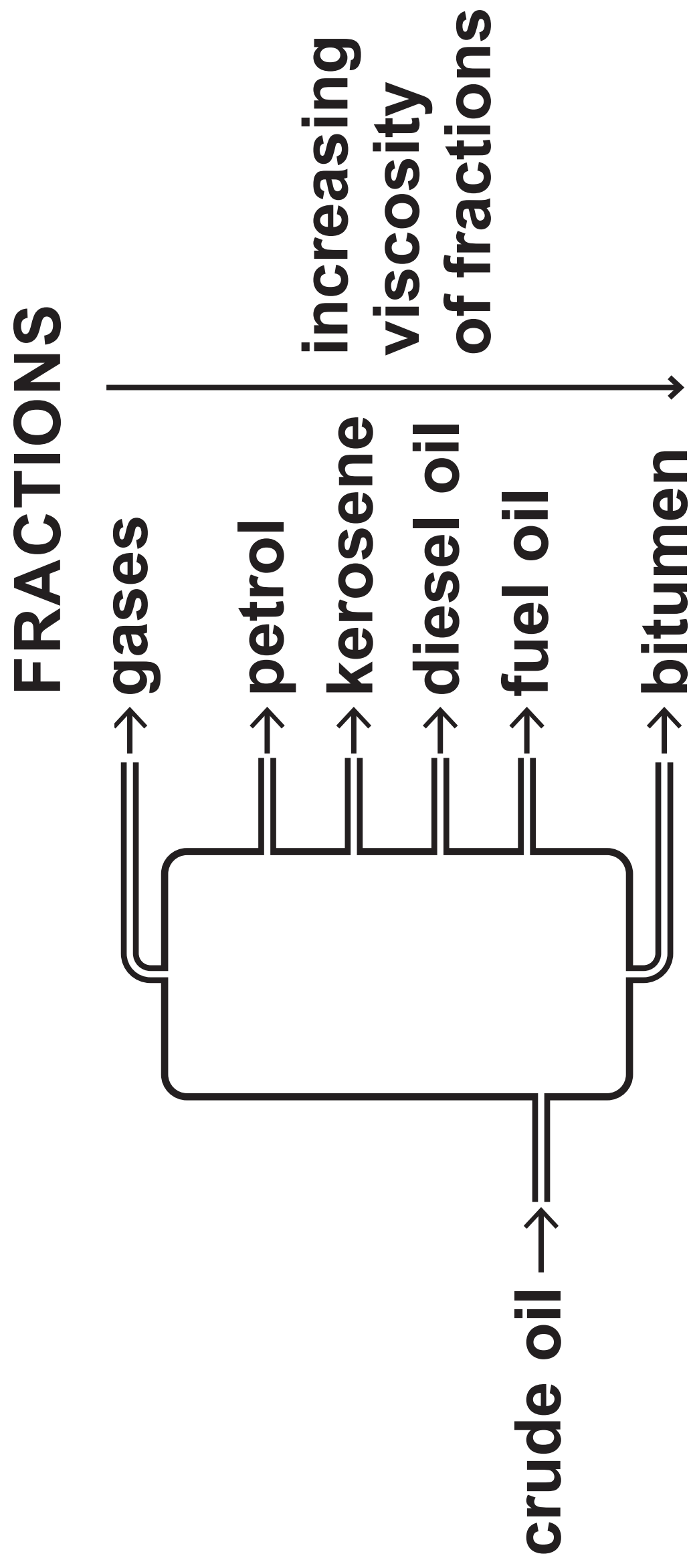
FIGURE 8



Question 5(b)(iii)**FIGURE 9**

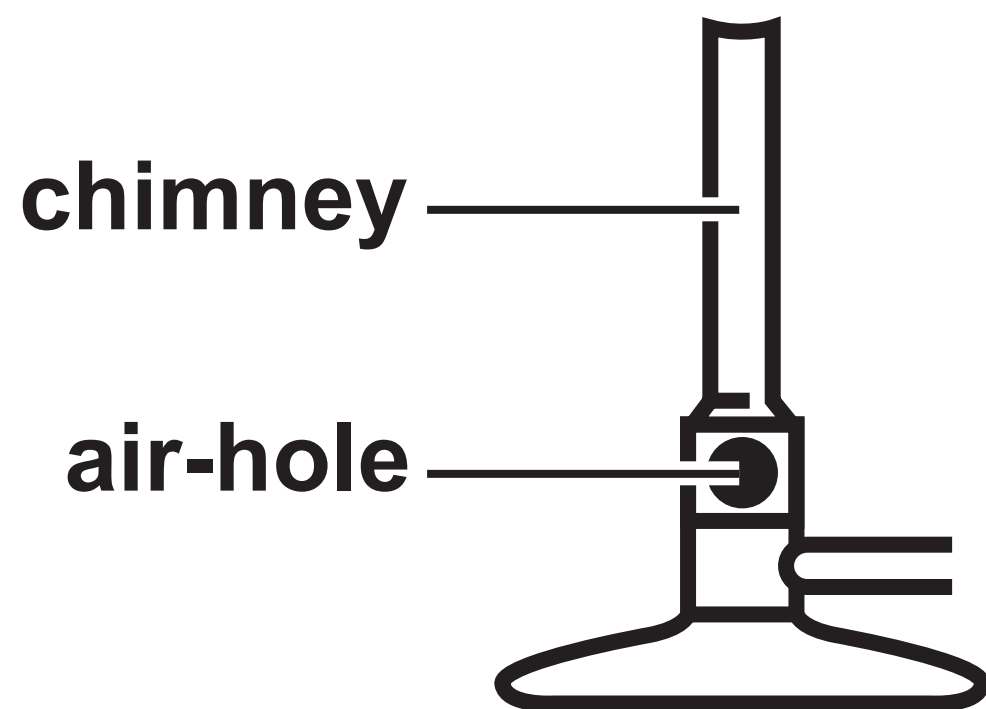
bond	bond energy in kJ mol⁻¹
N≡N	944
H—H	436
H—N	388

FIGURE 10



Question 6(c)

FIGURE 11



Question 1(a)

