

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

Combined Science
PAPER 5
Foundation 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

5	Question 1(a)
6	Question 1(b)
7	Question 1(c)
8	Question 2
9	Question 2(a)
10	Question 2(b)
11	Question 3
12	Question 3(a)
13	Question 3(d)(i)
14	Question 4(b)(v)
15	Question 4(b)(vi)
16	Question 4(c)
17	Question 5

(continued on the next page)

Turn over

Contents continued.

18 Question 5(a) and 5(c)

19 Question 5(b)

20 Question 6(a)

Spare Copies

21 Question 1(b)

22 Question 1(c)




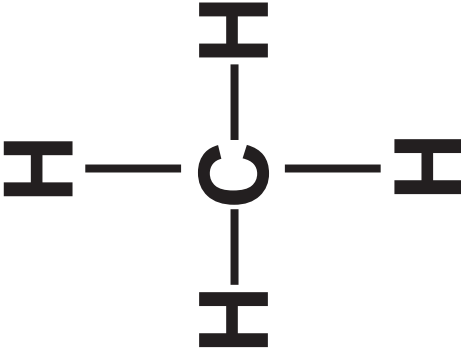
23 Question 3(a)

24 Question 5(a) and 5(c)

Question 1(a)

5

FIGURE 1

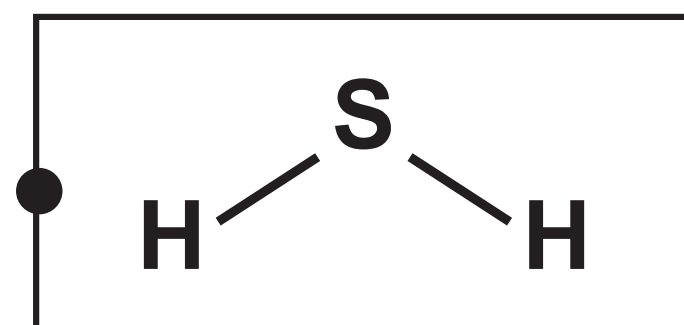
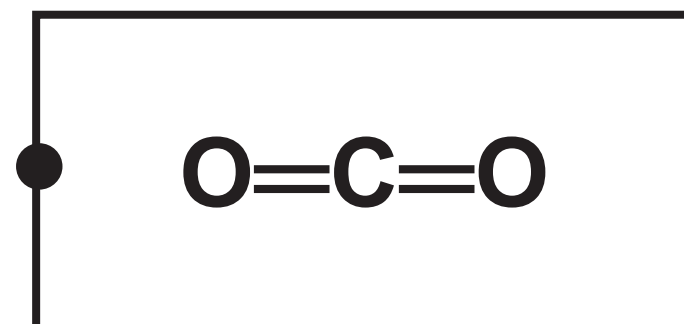
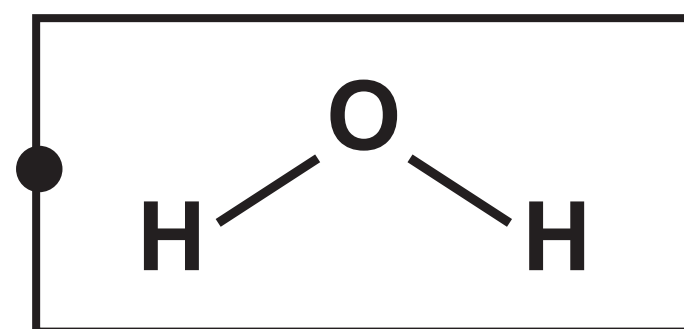
compound A	compound B	compound C	compound D
			

Question 1(b)

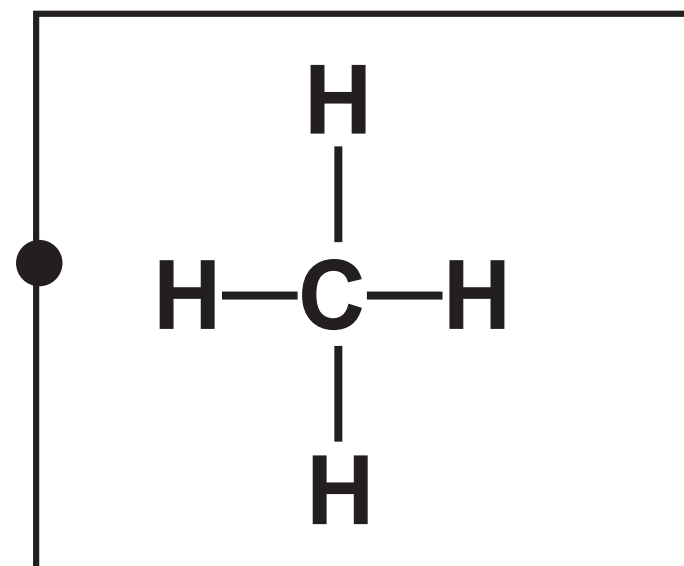
**name of
compound**

**structure of
molecule**

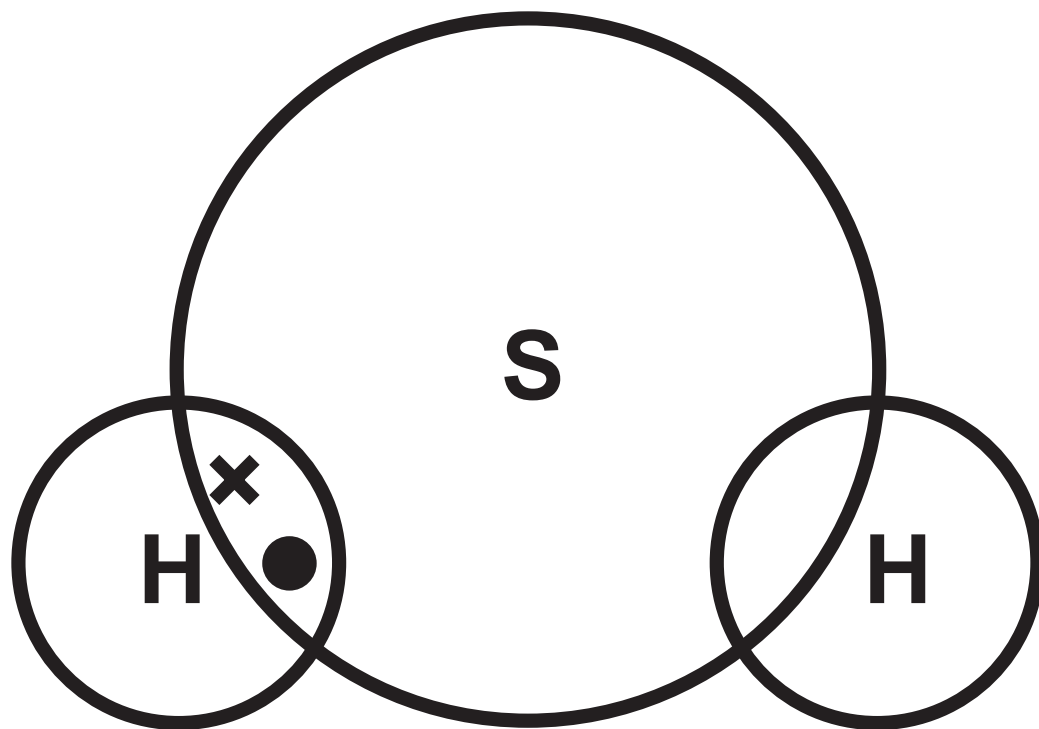
**carbon
dioxide**



methane

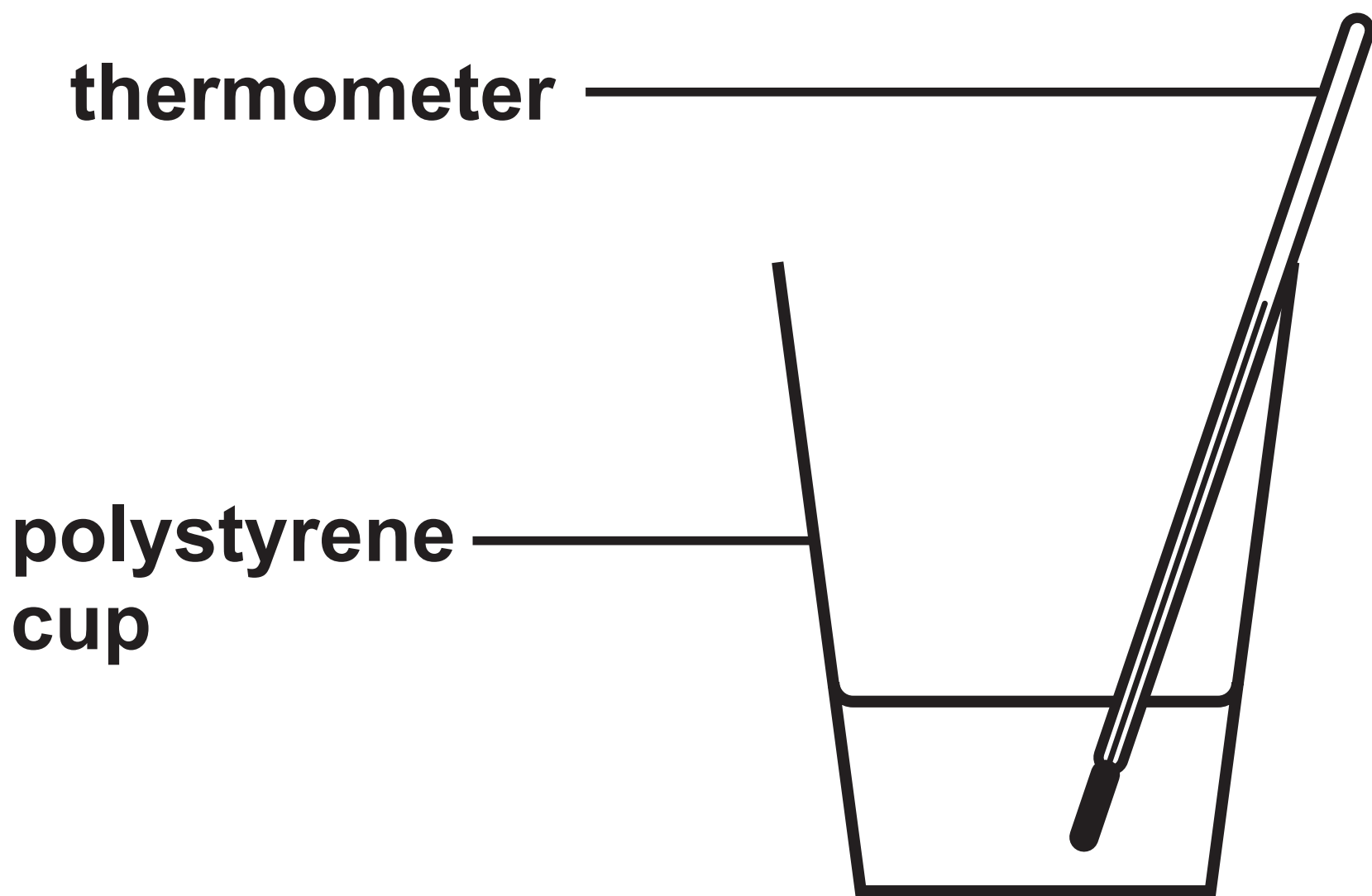


Question 1(c)



Question 2

FIGURE 3



Question 2(a)

FIGURE 4

mass of empty boiling tube in g	22.52
mass of boiling tube + 2 spatula measures of a salt in g	24.16

FIGURE 5

salt	starting temperature of the water in °C	temperature of the mixture after 2 minutes in °C	temperature change in °C
A	20·5	25·6	+5·1
B	20·5	19·8	−0·7
C	20·5	29·2	

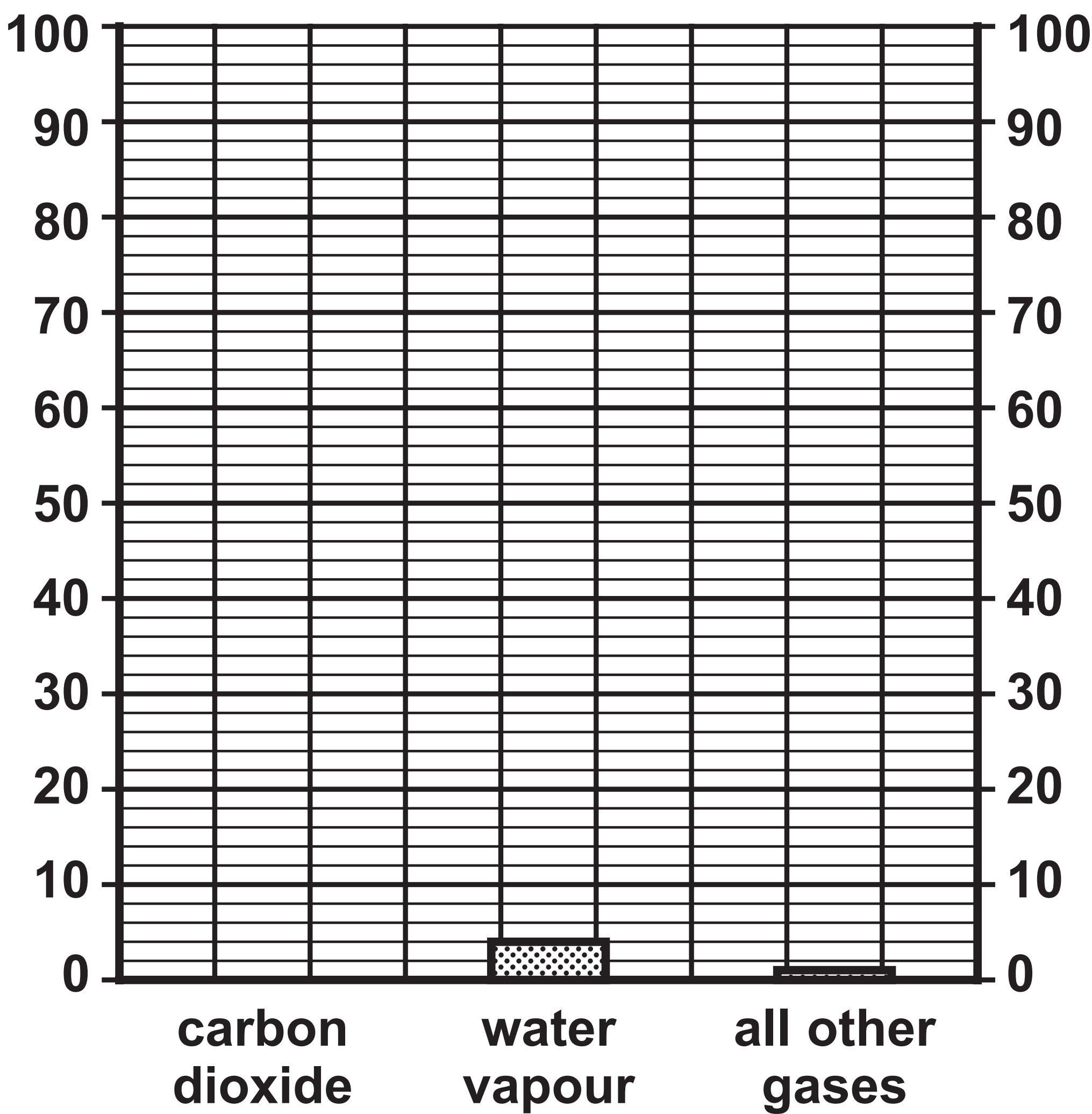
Question 3

FIGURE 6

Earth's atmosphere 3 billion years ago		Earth's atmosphere today	
gas	%	gas	%
carbon dioxide	95	nitrogen	78·00
water vapour	4	oxygen	21·00
all other gases	1	carbon dioxide	0·04
		all other gases including water vapour	0·96
average surface temperature 3 billion years ago		average surface temperature today	
above 400 °C		20 °C	

Question 3(a)

percentage of gas in
Earth’s early atmosphere



Question 3(d)(i)

FIGURE 7

	amount of carbon dioxide in ppm
June 2001	371·17
June 2021	416·56

Question 4(b)(v)

Diagram A

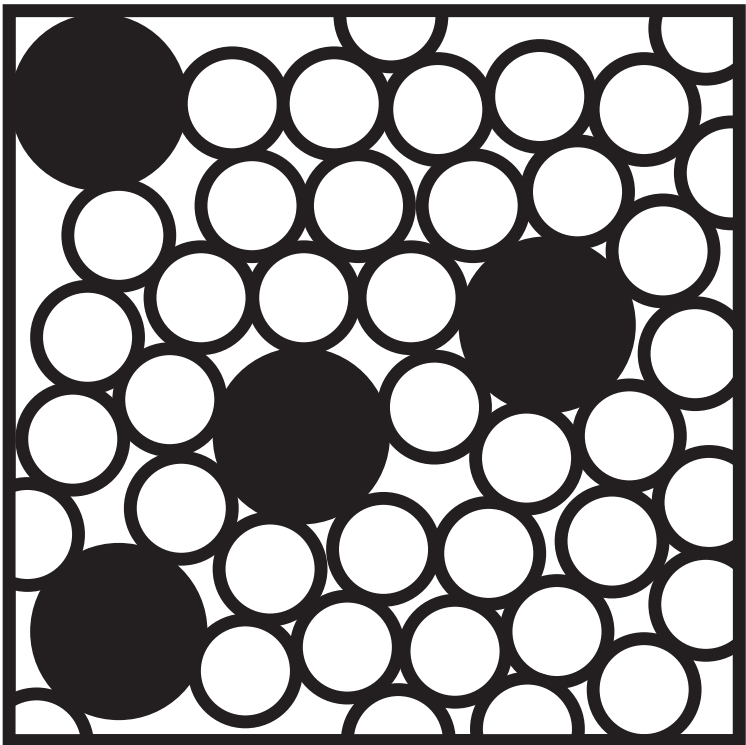


Diagram B

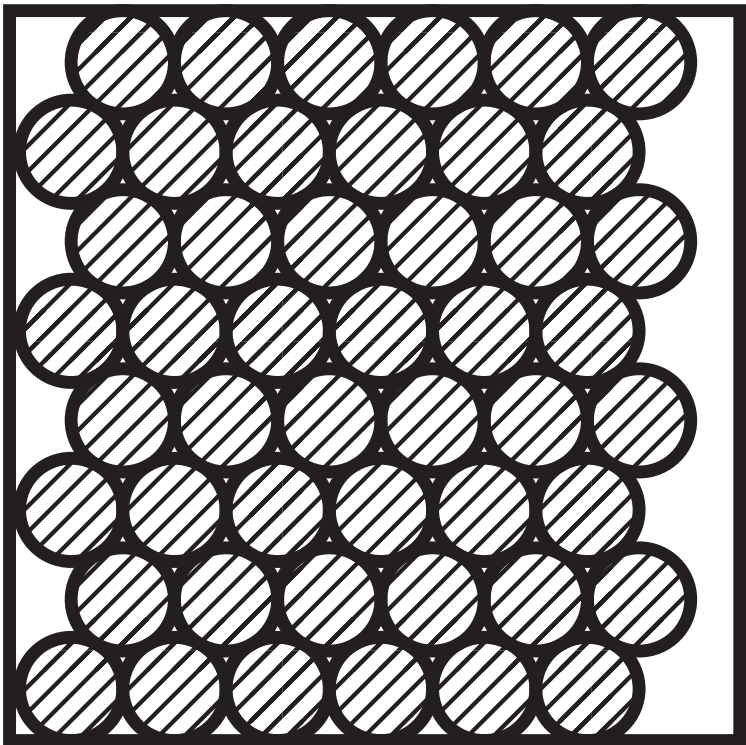


Diagram C

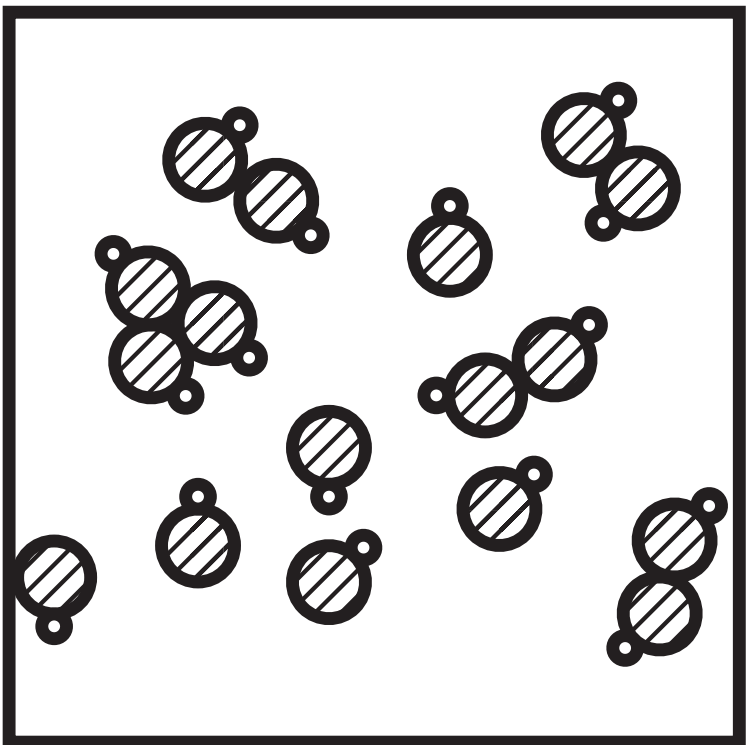
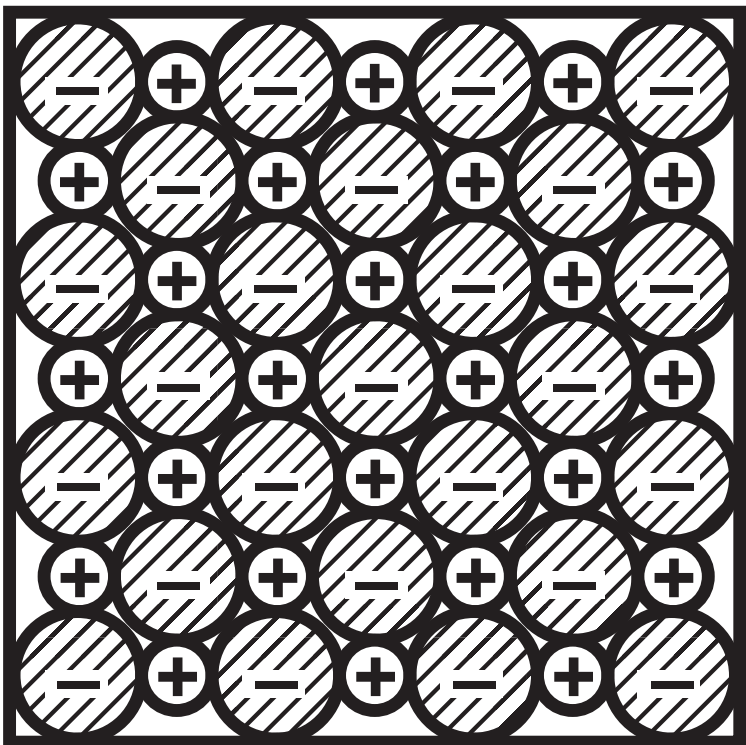


Diagram D



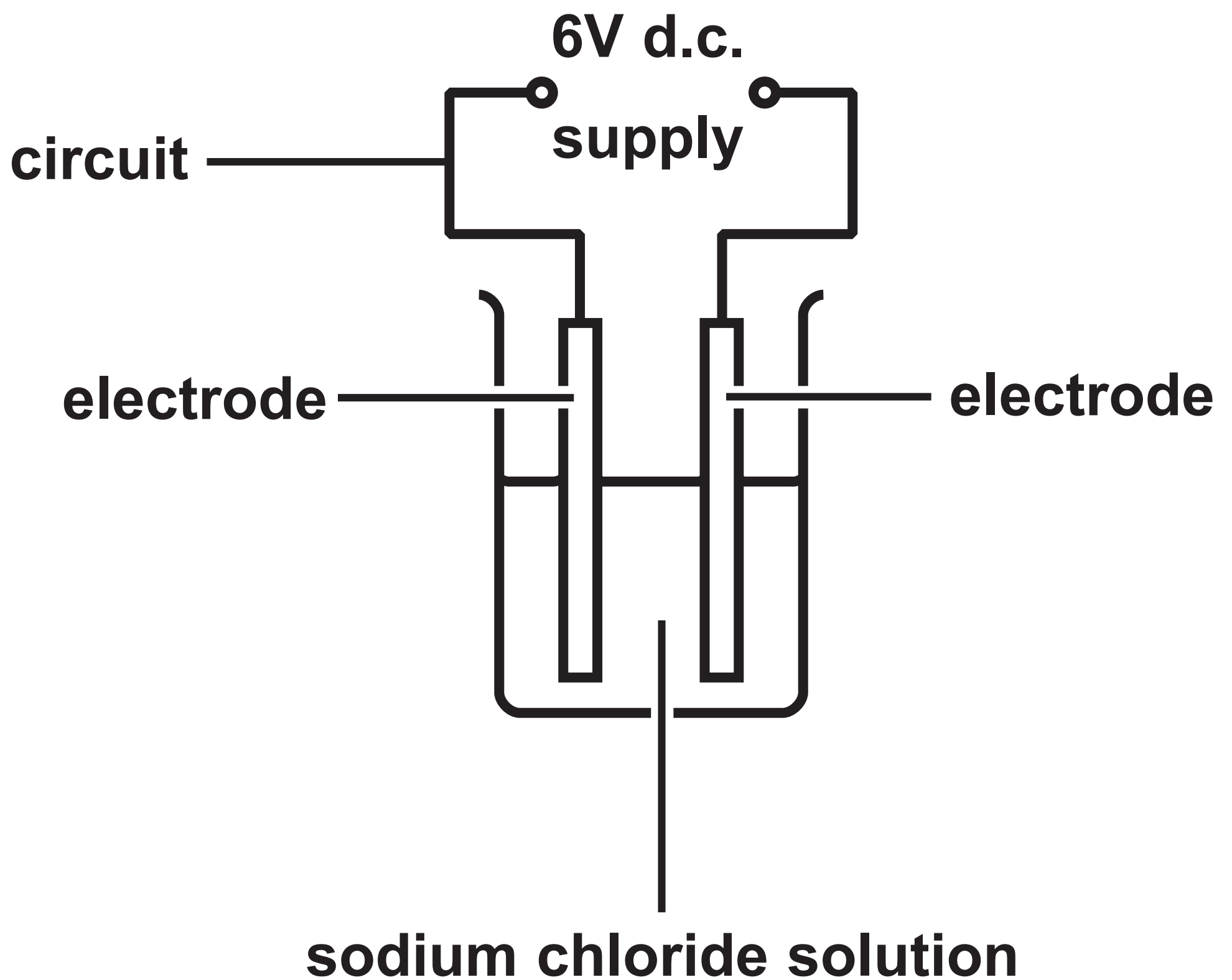
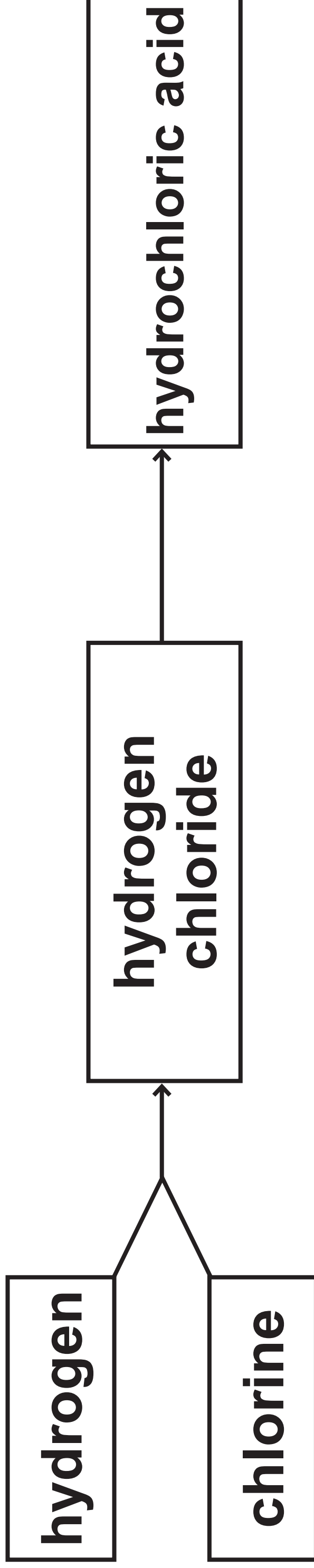
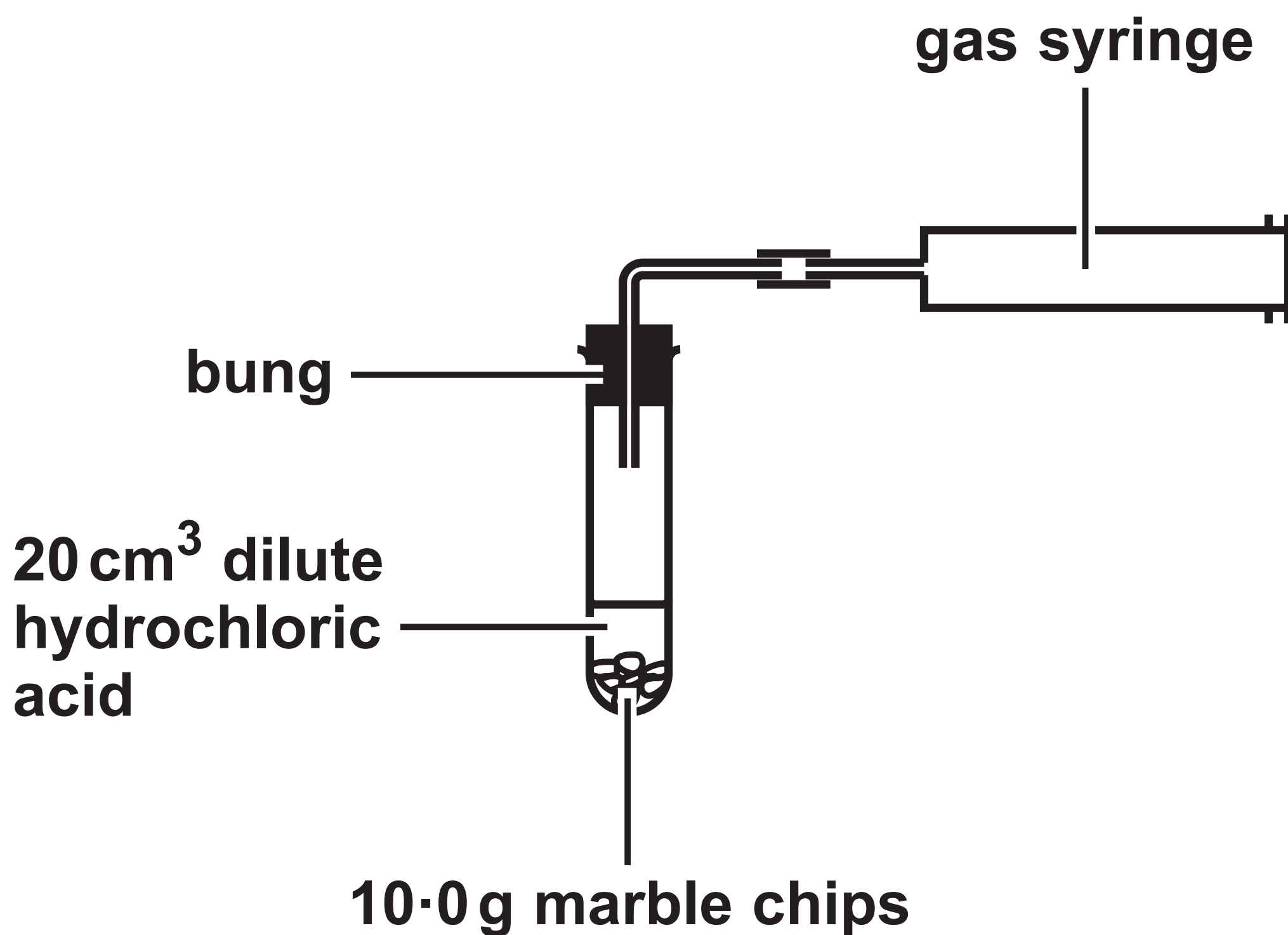
Question 4(b)(vi)**FIGURE 8**

FIGURE 9



Question 5

FIGURE 10



Question 5(a) and 5(c)

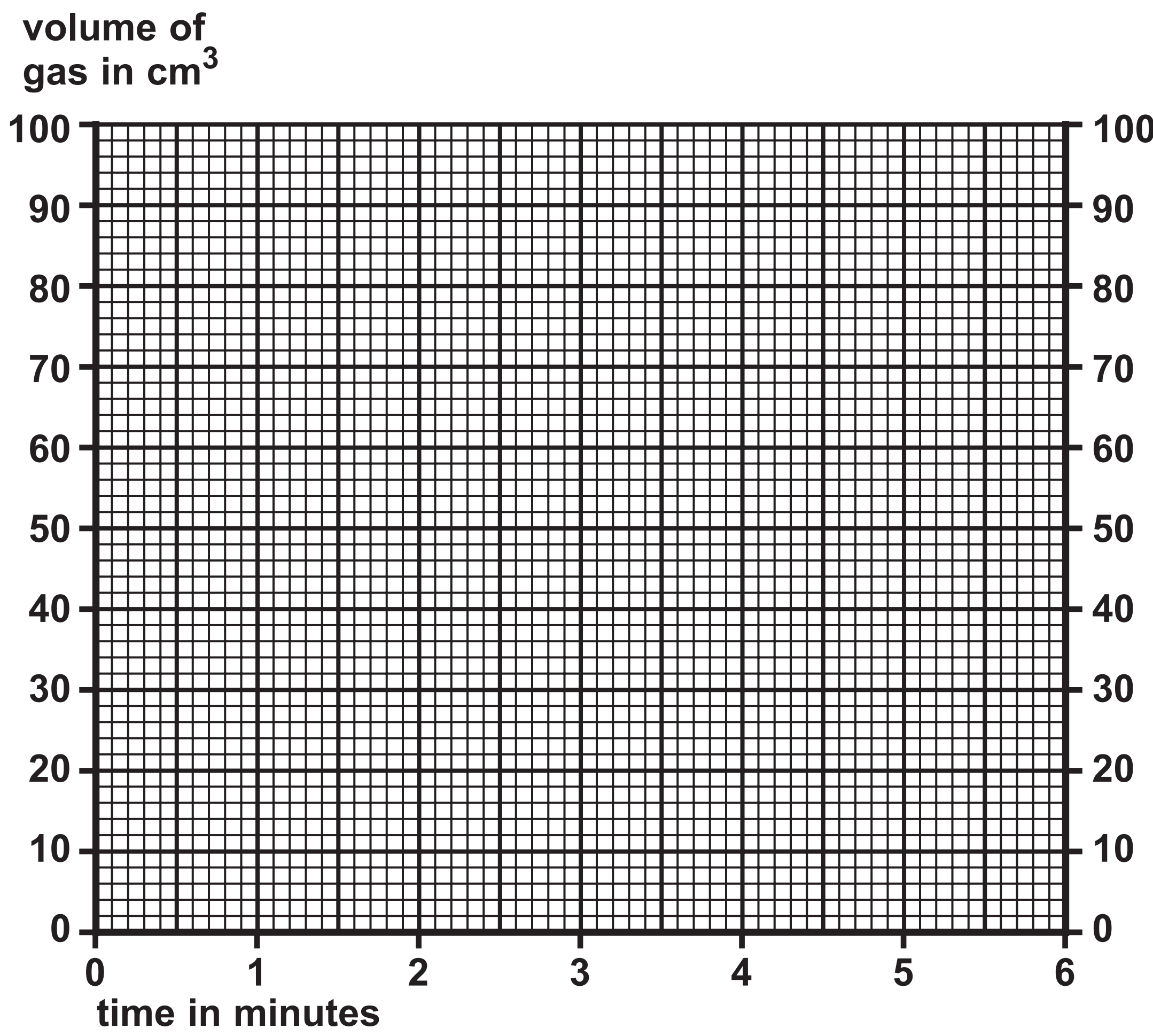


FIGURE 12

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

Question 6(a)

FIGURE 13

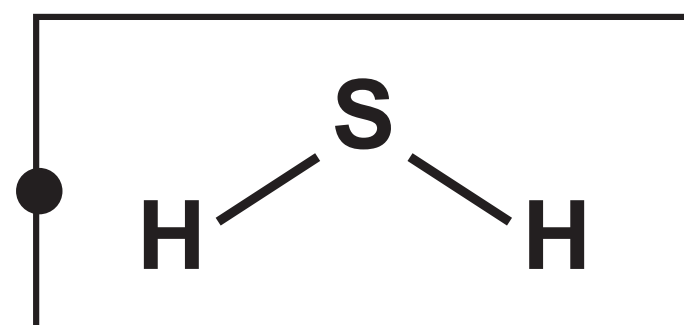
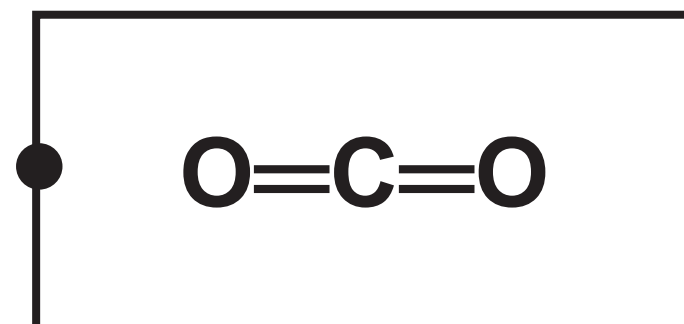
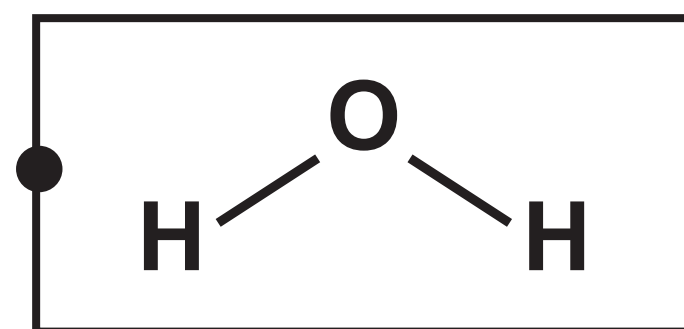
group 1 metal	atomic number	relative atomic mass
lithium	3	7
sodium	11	23
potassium	19	39
rubidium	37	85
caesium	55	133

Question 1(b)

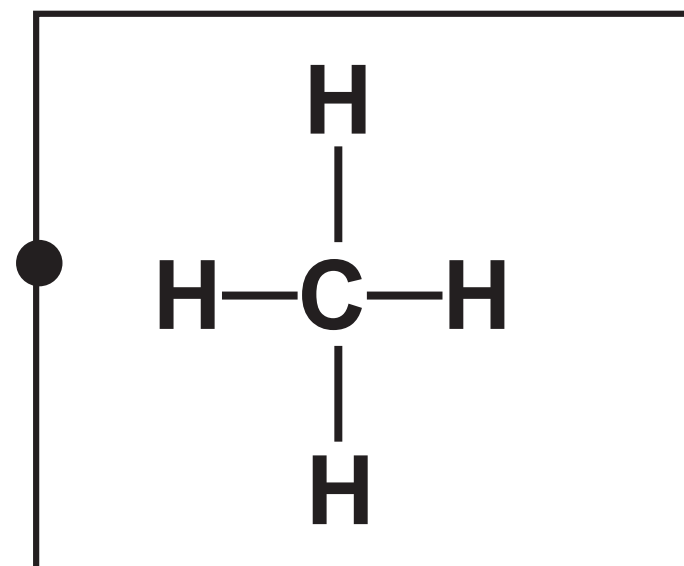
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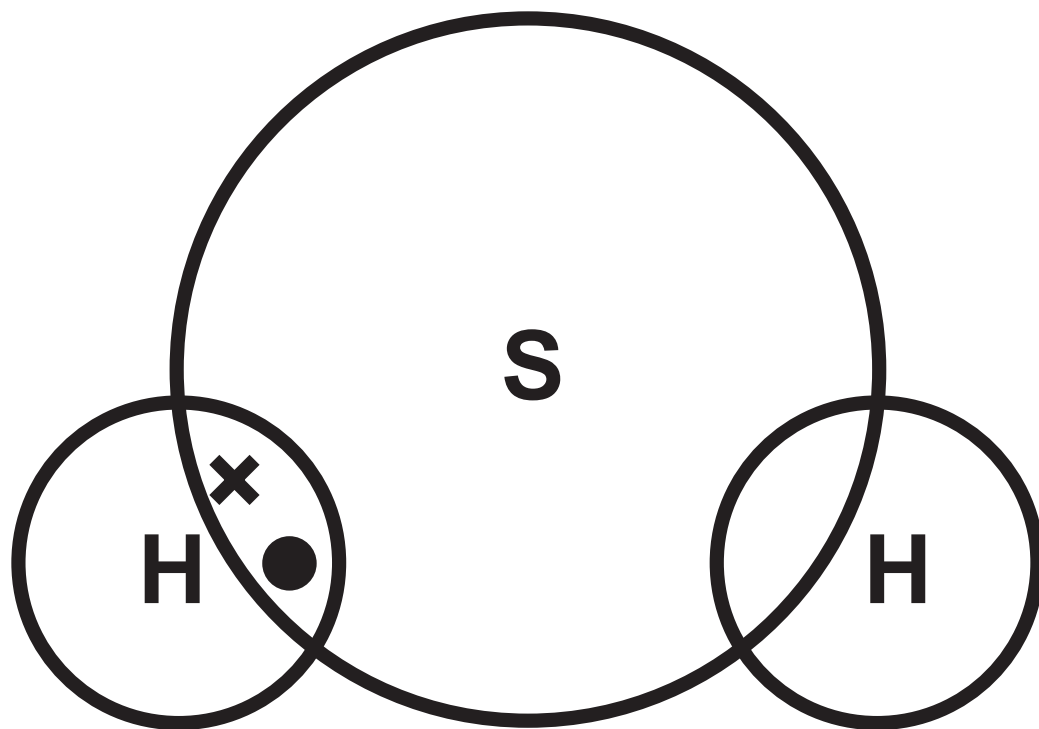
**carbon
dioxide**



methane

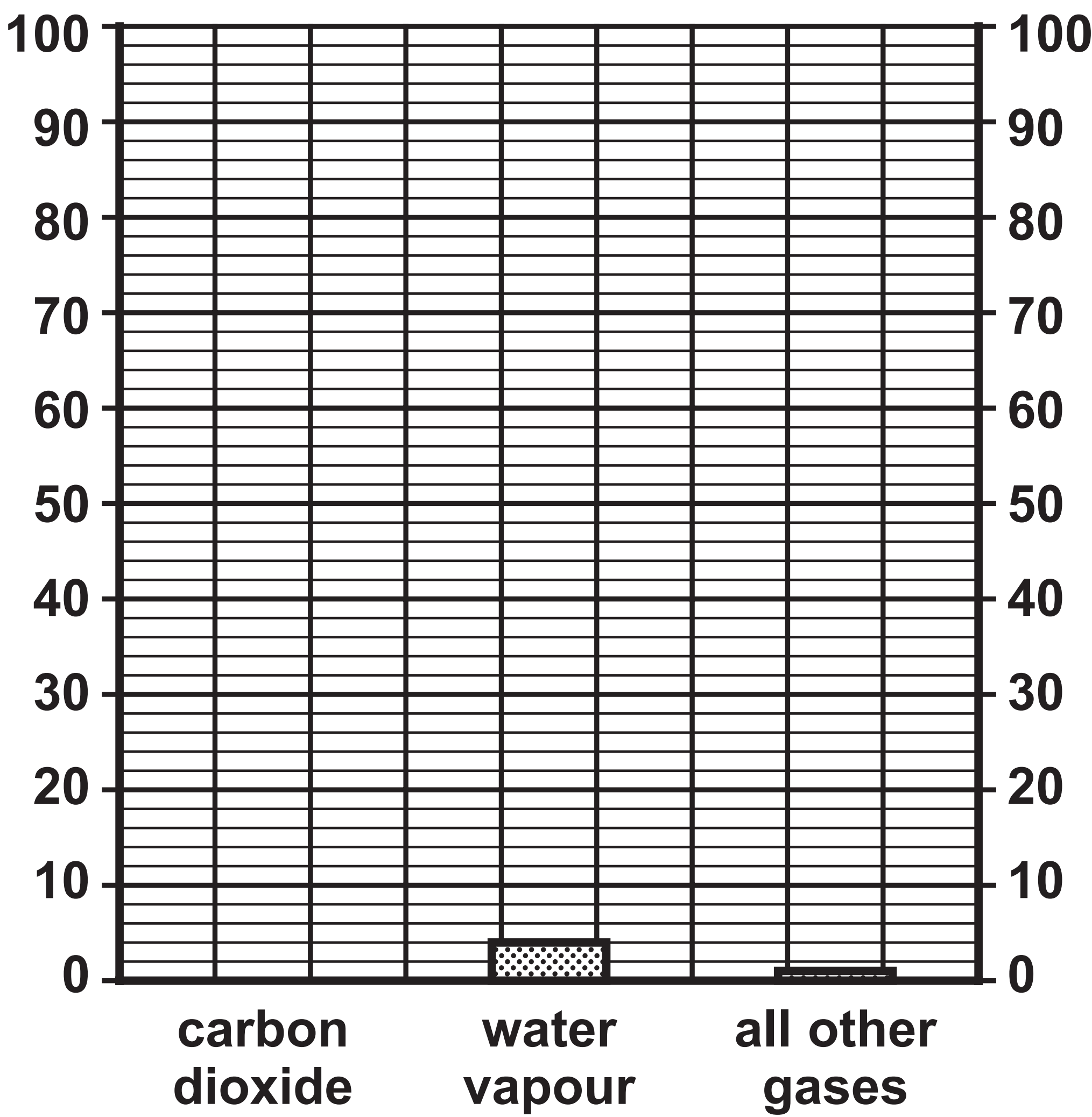


Question 1(c)



Question 3(a)

percentage of gas in
Earth's early atmosphere



Question 5(a) and 5(c)

