

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.**

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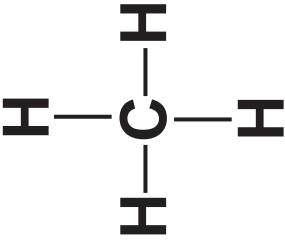
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FIGURE 1

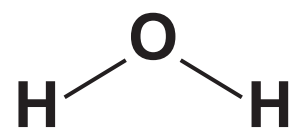
compound A	compound B	compound C	compound D
			

## Question 1(b)

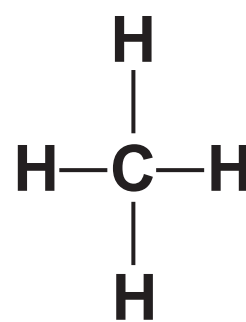
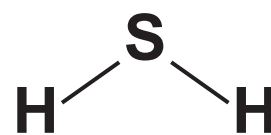
name of compound

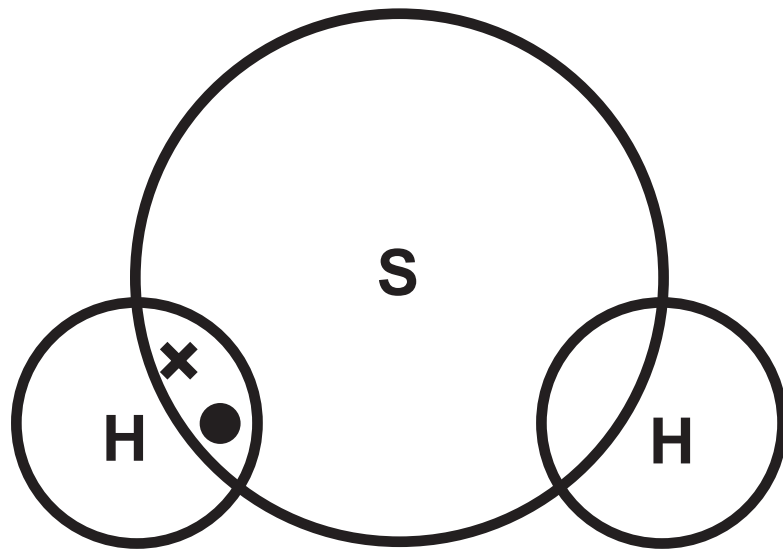
structure of molecule

carbon dioxide



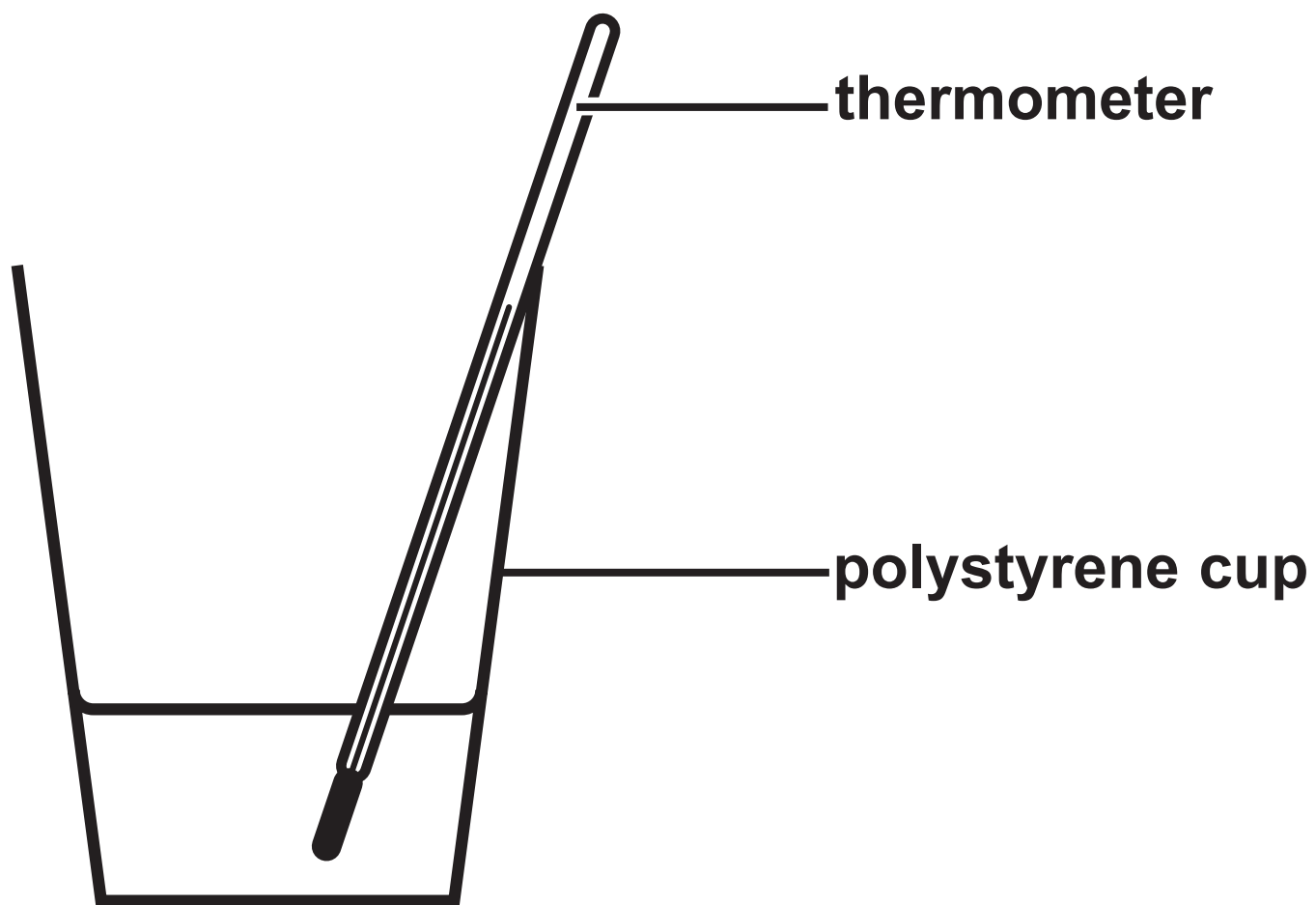
methane



**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


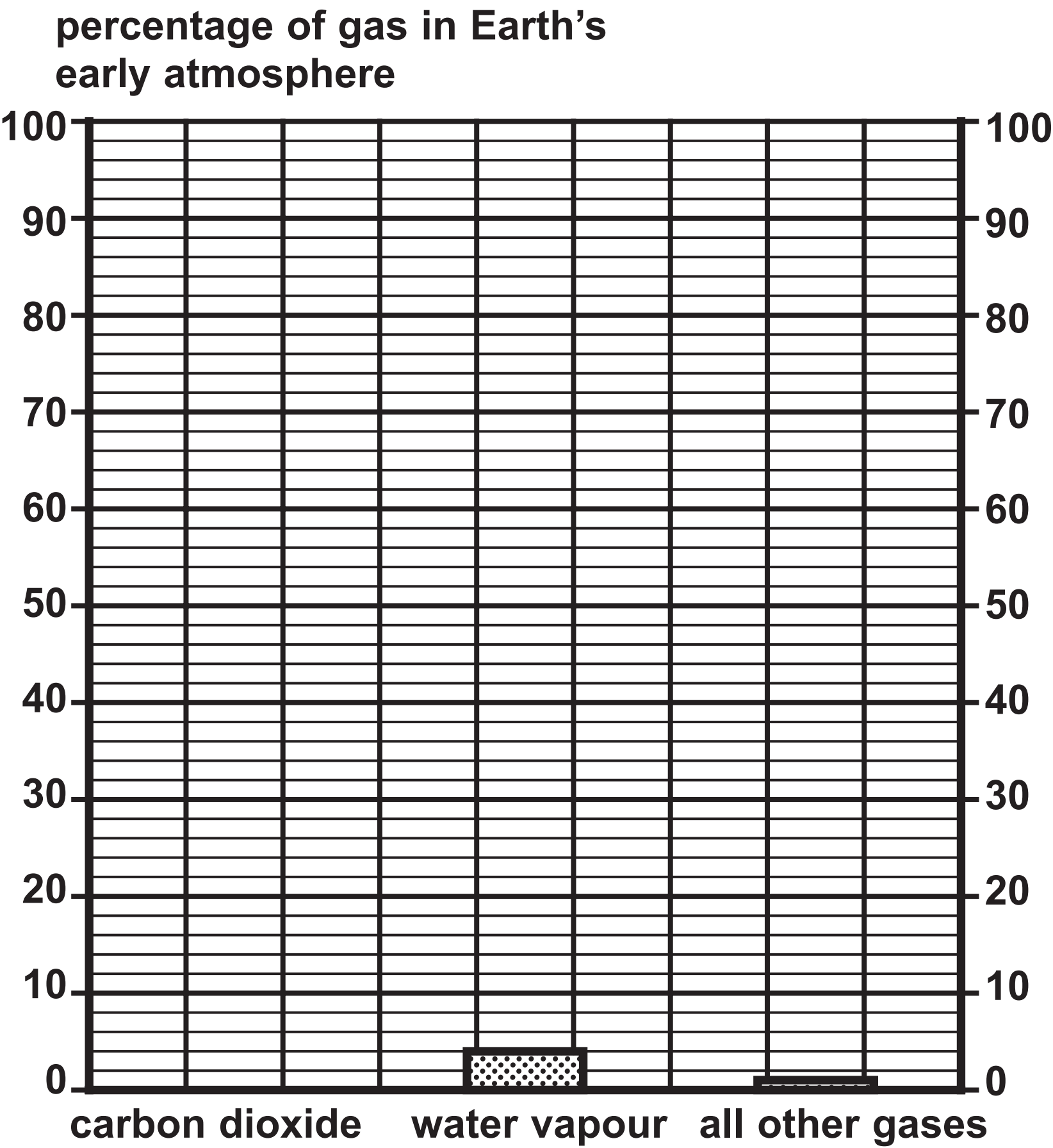
Salt	starting temperature of the water in °C	temperature of the mixture after 2 minutes in °C	temperature change in °C
A	20·5	25·6	+5·1
B	20·5	19·8	−0·7
C	20·5	29·2	

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)



Question 3(d)(i)

FIGURE 7

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

Diagram A

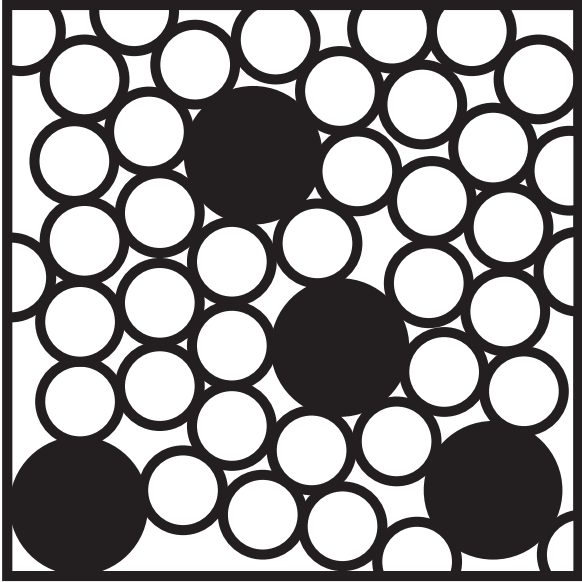


Diagram C

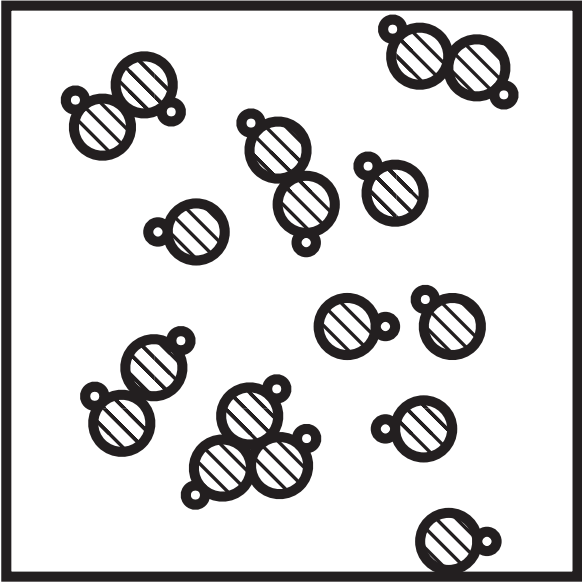


Diagram B

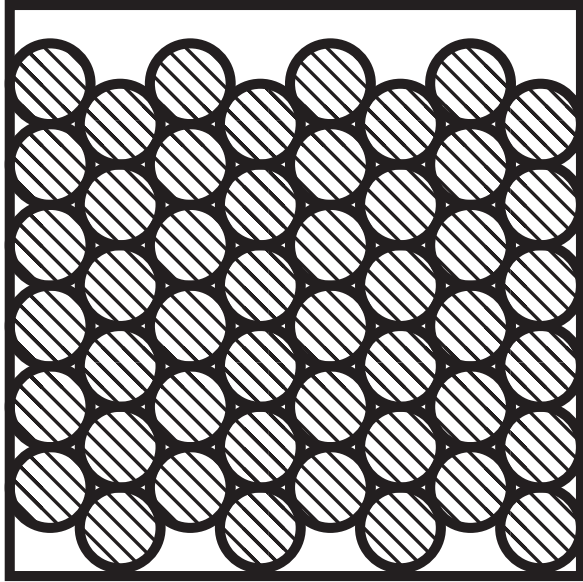
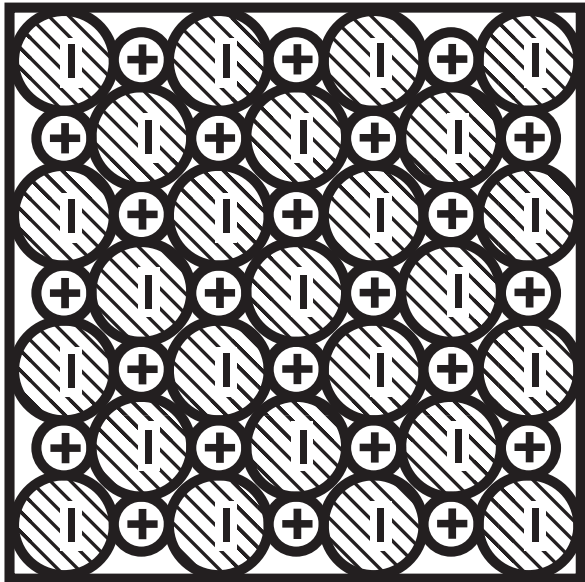


Diagram D



Question 4(b)(vi)

FIGURE 8

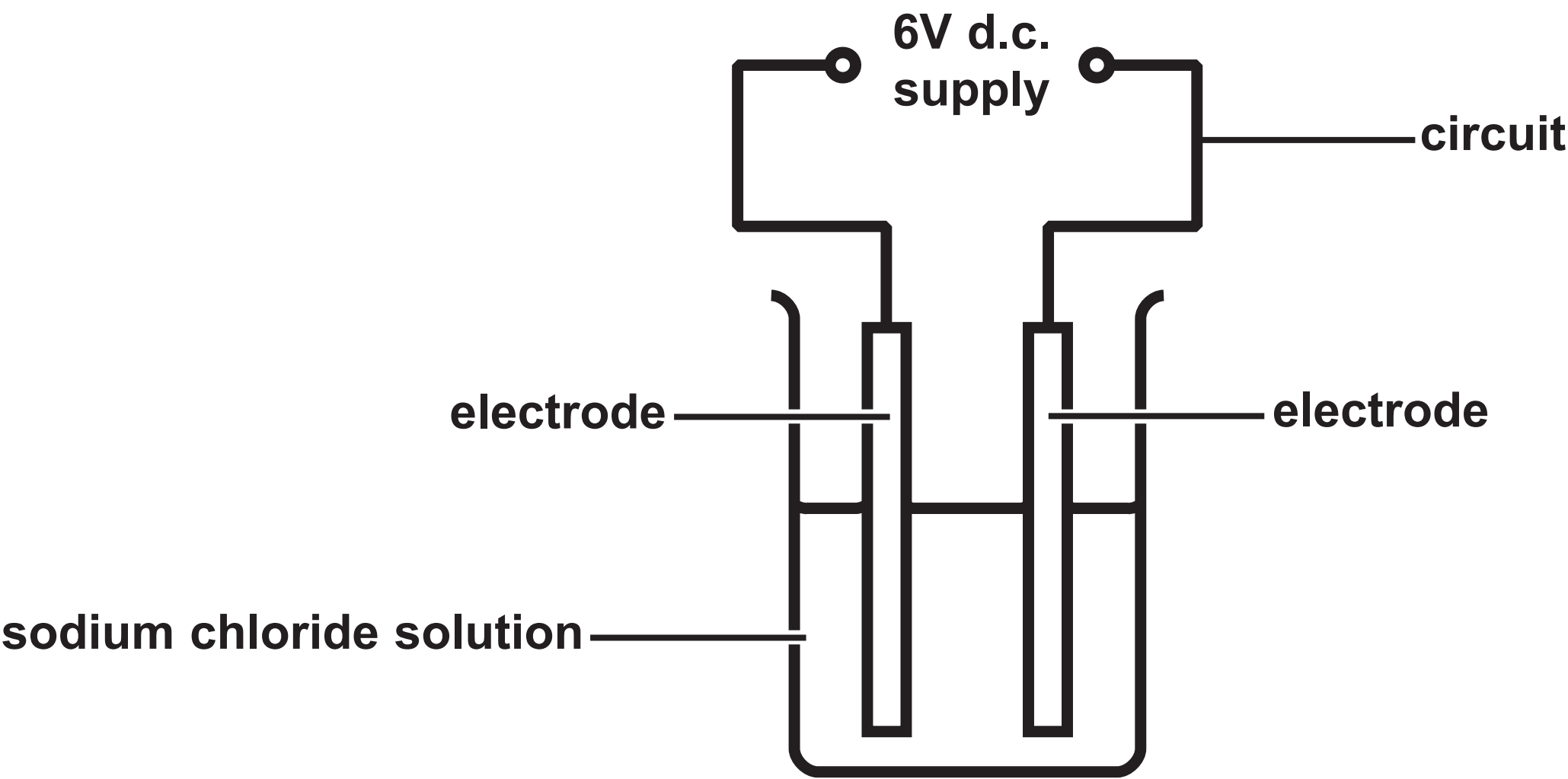


FIGURE 9

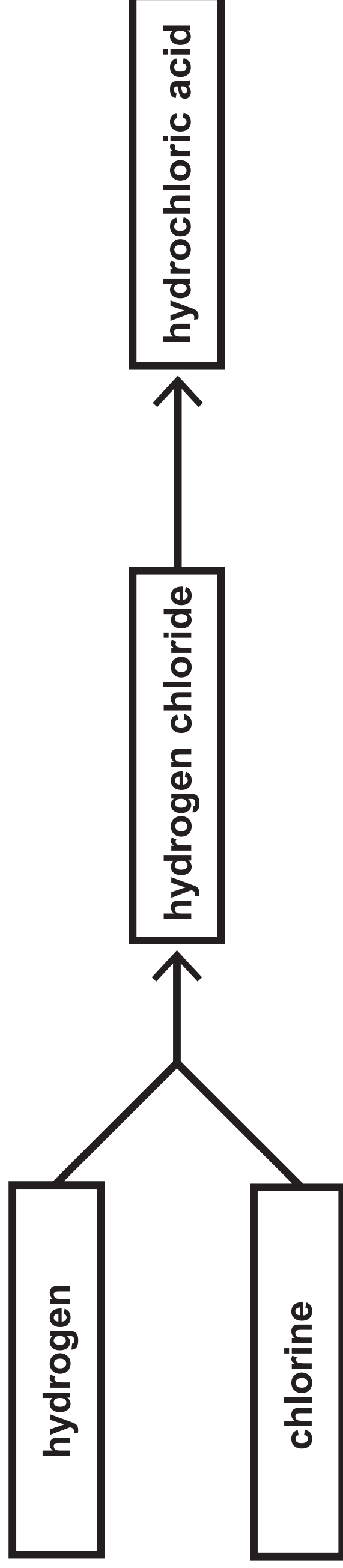
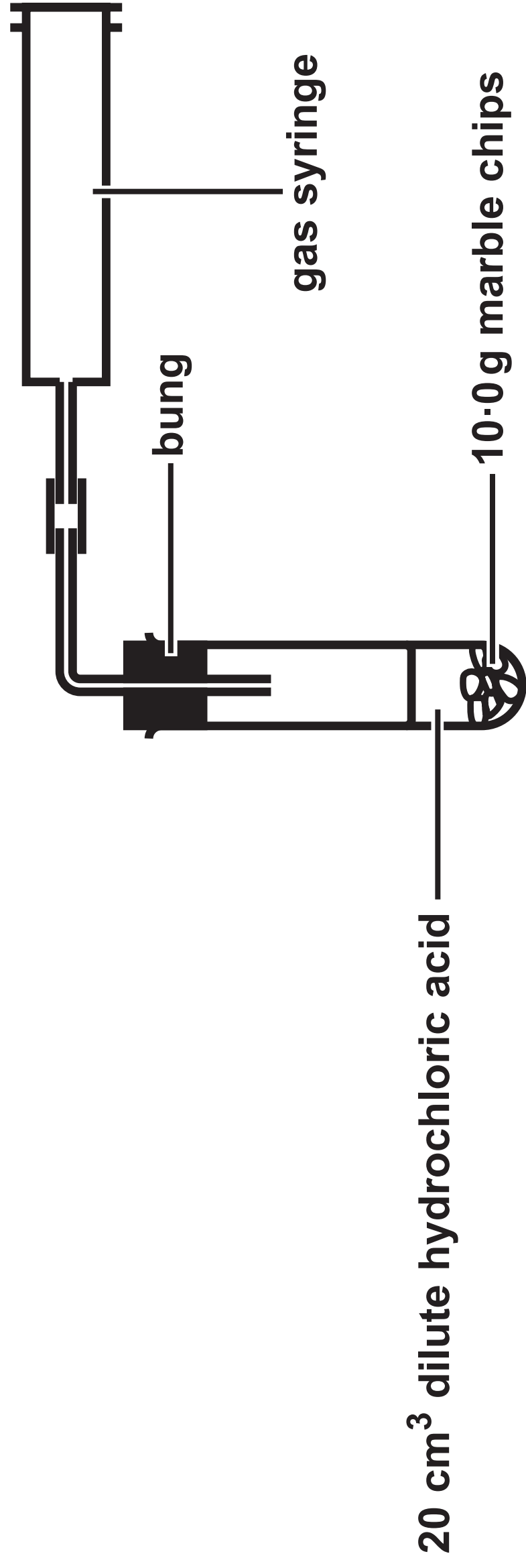




FIGURE 10



## Question 5(a)

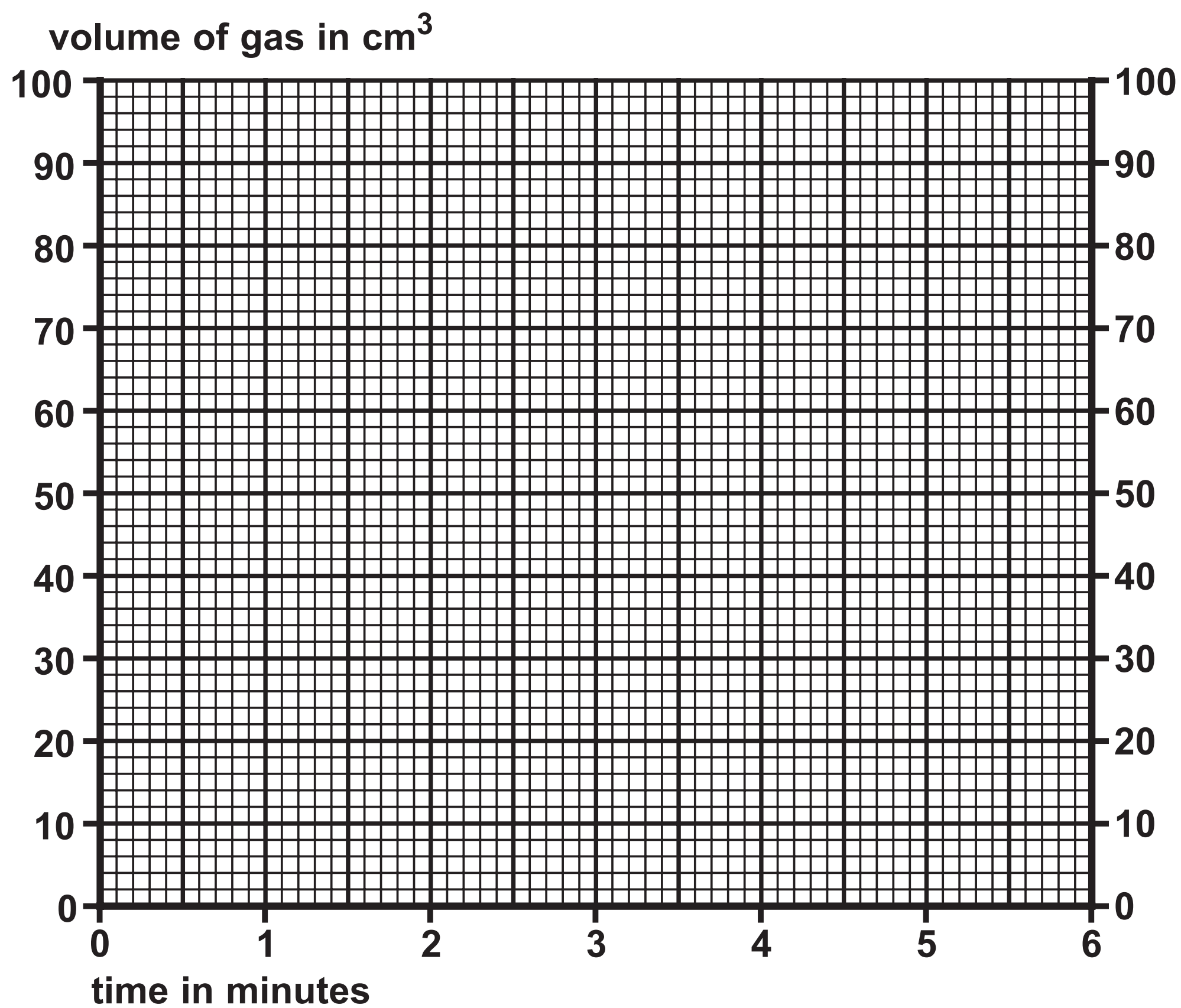


FIGURE 12

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 6(b)

properties of group 1 metals	
compounds are white in colour	high density
low melting points	compounds are blue in colour
soft enough to be cut by a knife	low melting points
high density	conduct electricity

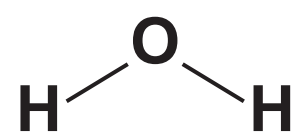
- ☐ A
- ☐ B
- ☐ C
- ☐ D

## Question 1(b)

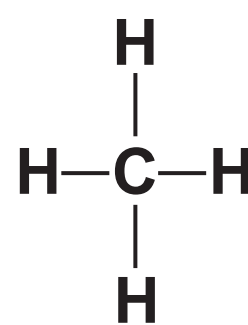
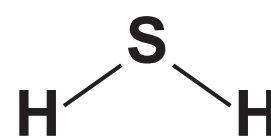
name of compound

structure of molecule

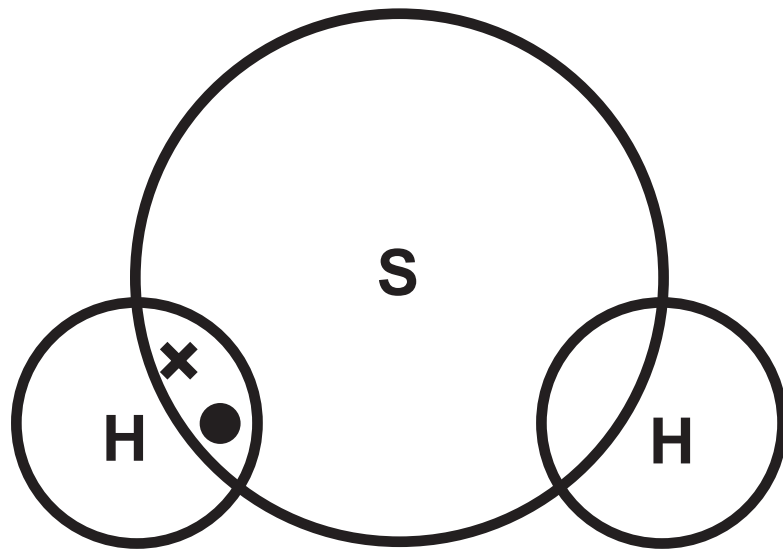
carbon dioxide



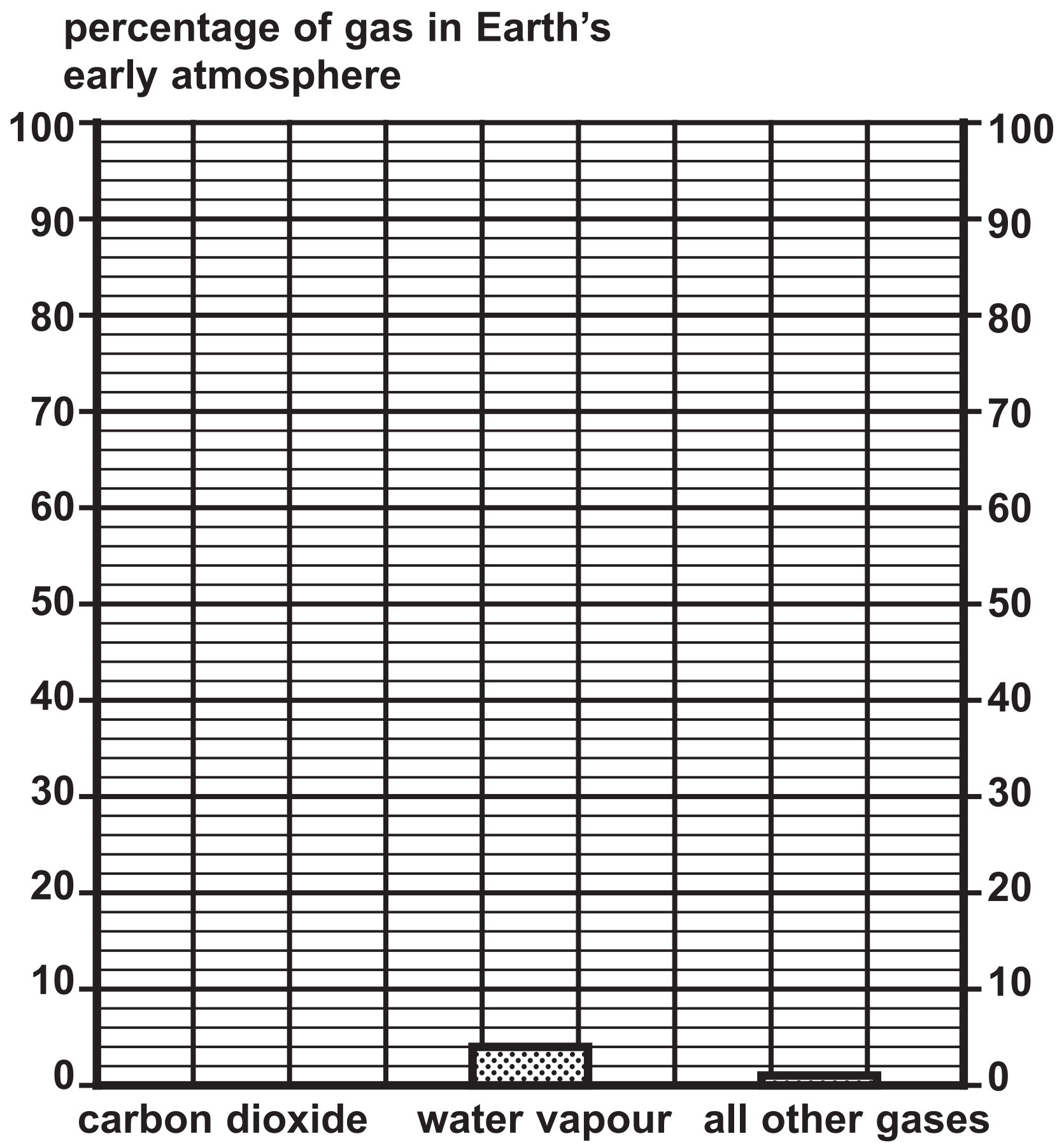
methane



## Question 1(c)



## Question 3(a)





Question 5(a)

