

Chemistry
PAPER 2:
Foundation 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(d)

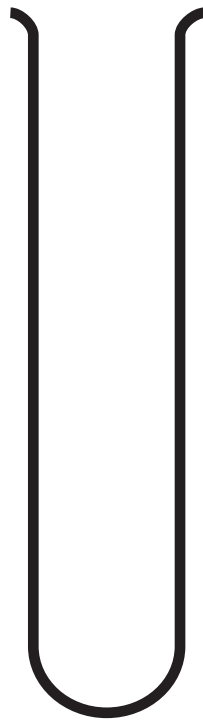
FIGURE 1

substance	percentage composition
abrasives	35%
water	
other substances	25%

Question 2(a)

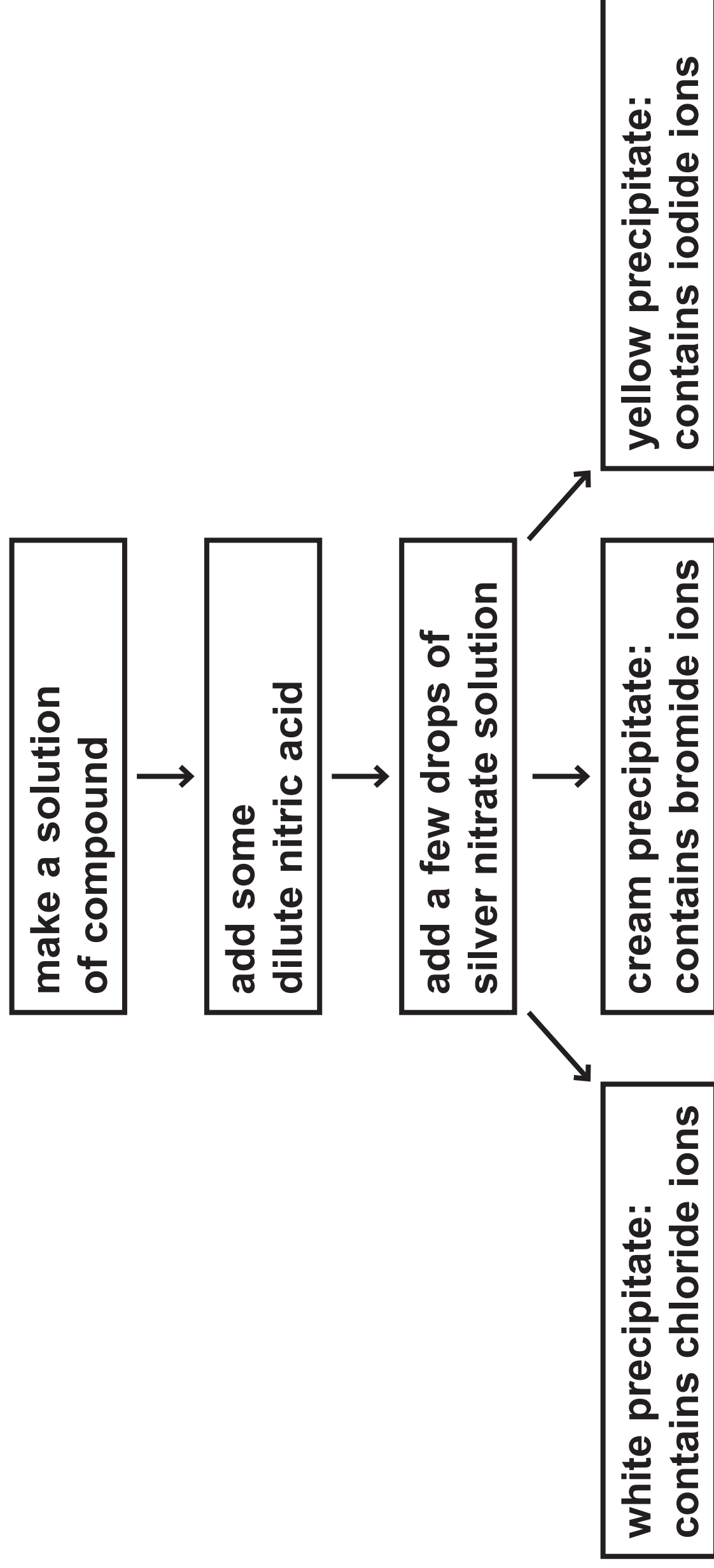
FIGURE 2

symbol	melting point in °C
Li	181
Na	98
K	64

Question 2(b)**FIGURE 3**

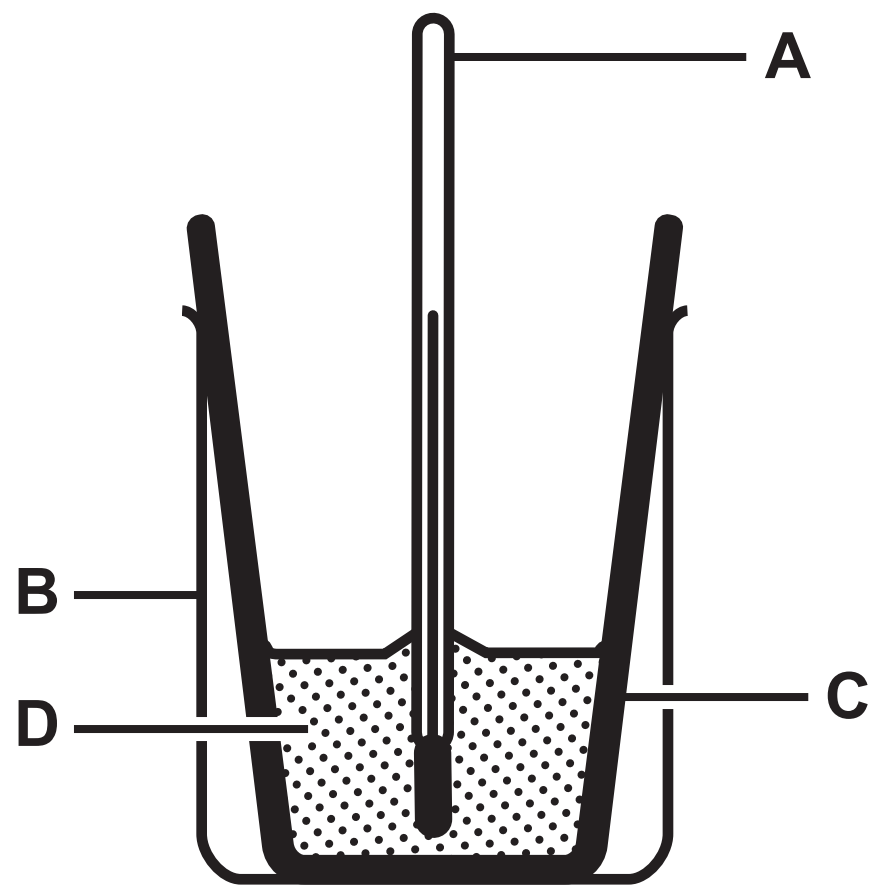
Question 3

FIGURE 4



Question 4(b)

FIGURE 5

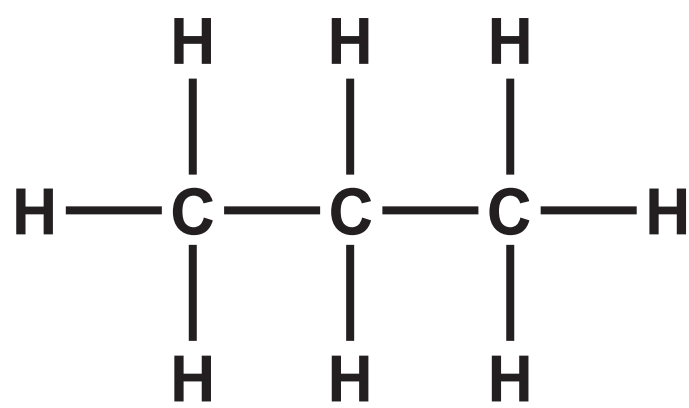


Question 4(b)(iv)**FIGURE 6**

temperature of liquid at start in °C	18·6
temperature of products at end in °C	16·1

Question 5(a)

FIGURE 7



Question 5(b)

fraction

use

petrol •

• fuel for aircraft

• fuel for ships

kerosene •

• fuel for cars

• making plastic

bitumen •

• extracting iron

• making road surfaces

Question 5(b)

fraction	use
petrol	fuel for aircraft
kerosene	fuel for ships
bitumen	fuel for cars
	making plastic
	extracting iron
	making road surfaces

FIGURE 8

halogen	description of reaction with heated iron wool
bromine	reacts quickly
chlorine	reacts very quickly
iodine	reacts slowly

Question 6(c)

an acid

a catalyst

higher

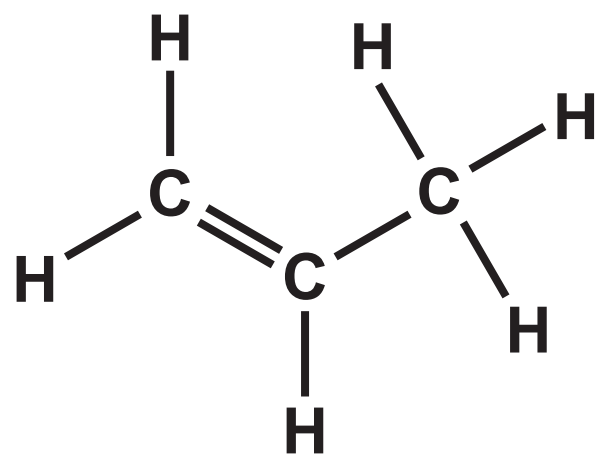
lower

a reactant

unchanged

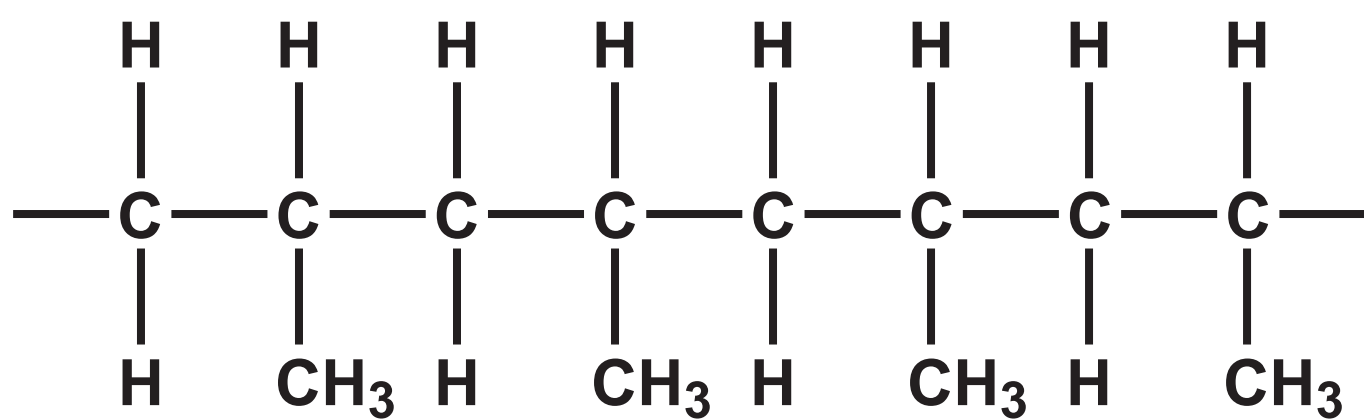
Question 7

FIGURE 9



Question 7(c)

FIGURE 10



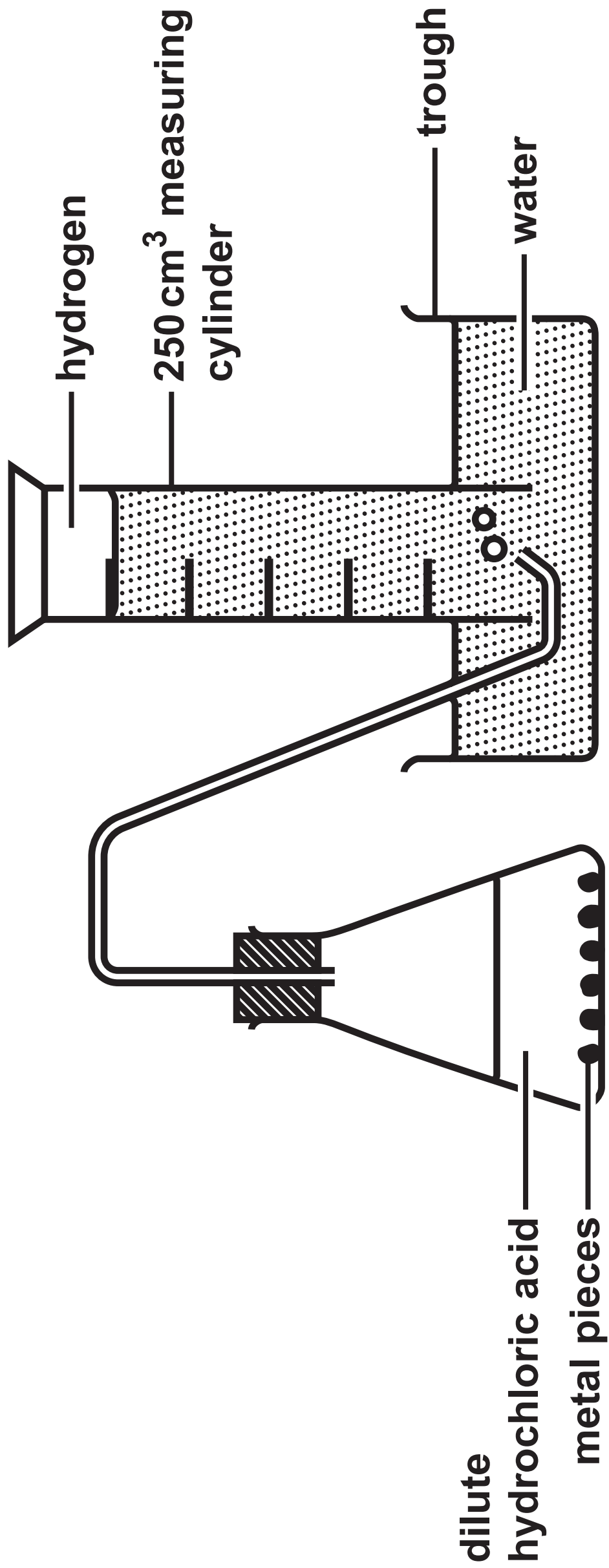
Question 7(d)

FIGURE 11

alkane	temperature change in °C
methane	9
ethane	16
propane	22
butane	29

Question 8

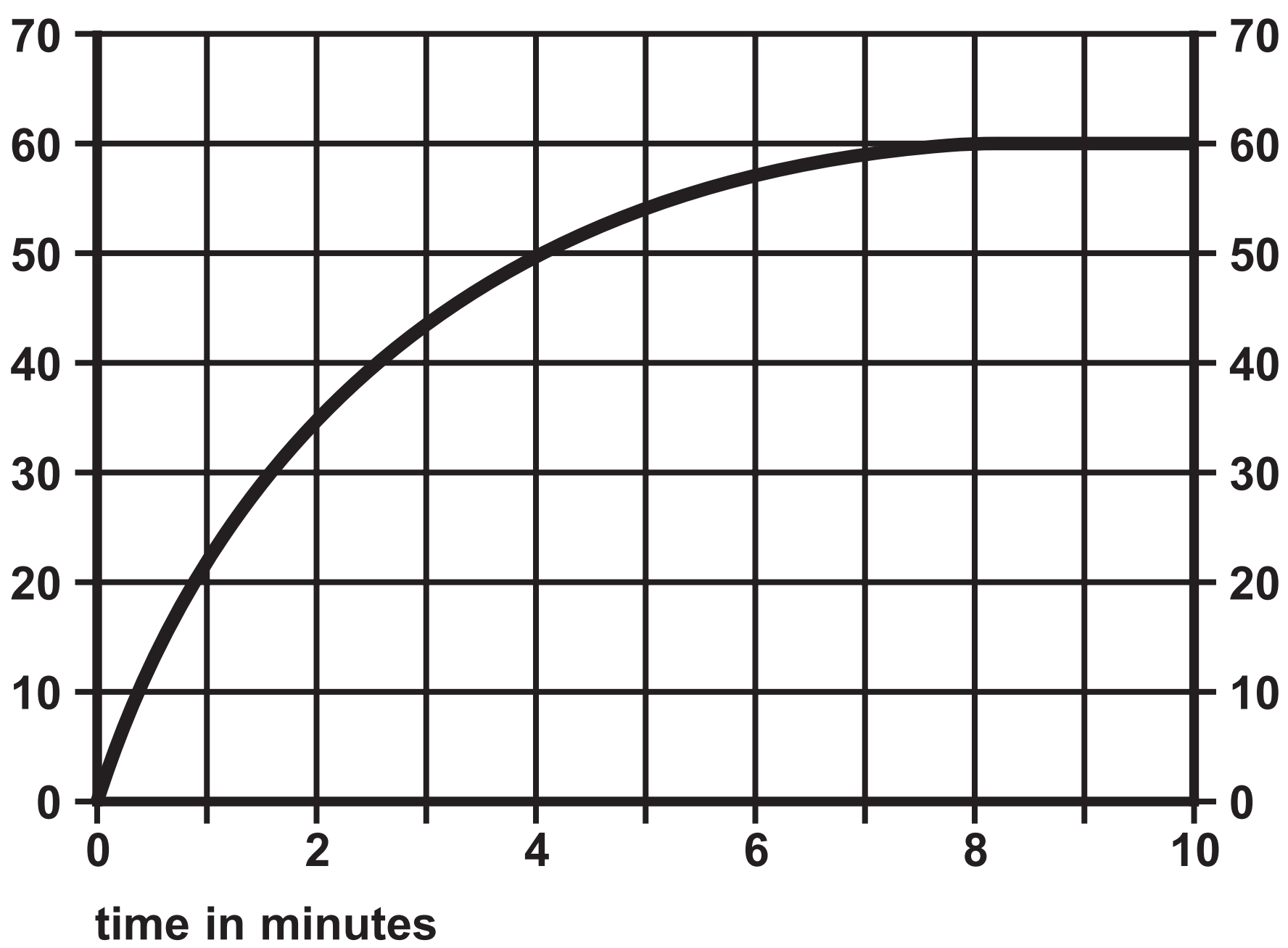
FIGURE 12



Question 8(a)

FIGURE 13

volume of hydrogen
in cm^3



Question 9(d)

FIGURE 14

Key

⊖ = electron

● = neutron

⊕ = proton

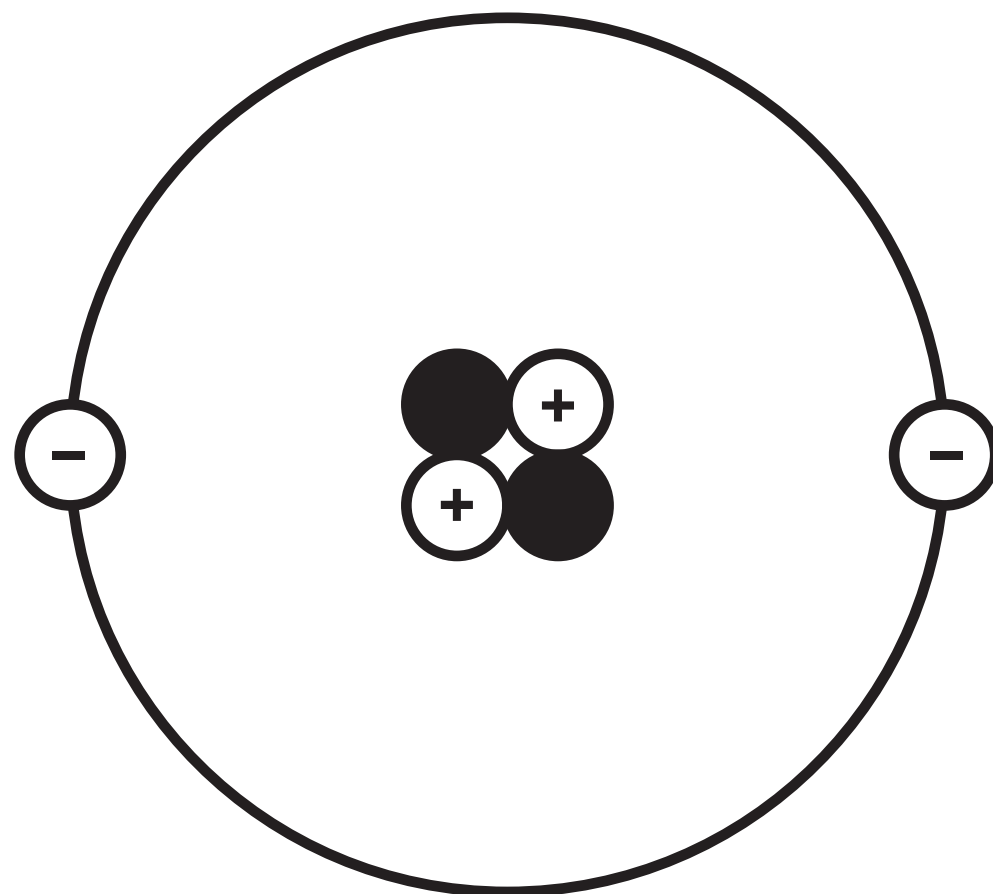
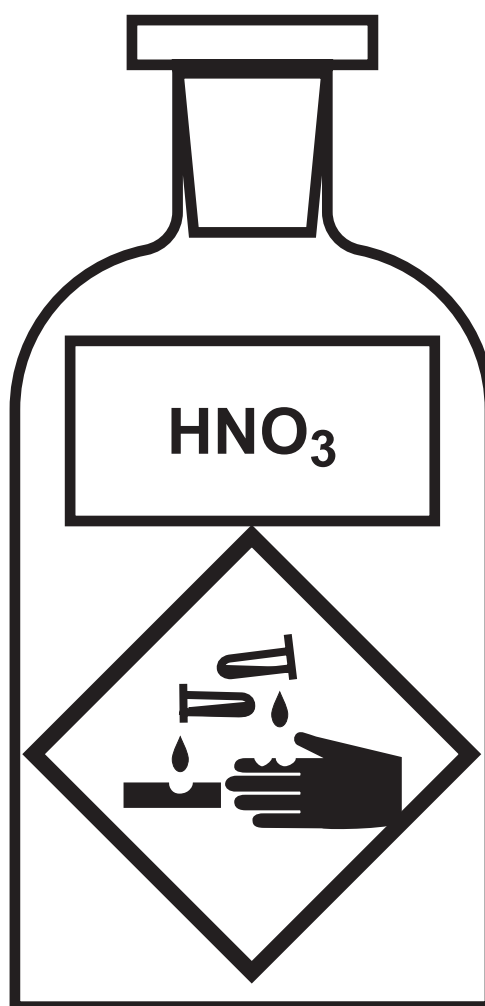


FIGURE 15

gas	relative amount in early atmosphere	composition of today's atmosphere
water vapour	large amount	0 % to 4 %
carbon dioxide	large amount	less than 0·5 %
oxygen	little or none	21 %

Question 10(a)

FIGURE 16



Question 10(b)(ii)

FIGURE 17

compound	flame colour
P	red
Q	lilac
R	blue-green