

Chemistry  
Science (Double Award) 4SD0  
PAPER 1C

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(a)

Description	Substance
a good conductor of electricity	
an element that has a basic oxide	
a substance used as a fuel	
a major cause of acid rain	
a non-metallic element that is a solid at room temperature	

Question 1(a) (Spare copy)

Description	Substance
a good conductor of electricity	
an element that has a basic oxide	
a substance used as a fuel	
a major cause of acid rain	
a non-metallic element that is a solid at room temperature	

Question 2(a)

Table 1

Subatomic particle	Relative mass	Relative charge
electron	0·0005	
proton		+1
neutron	1	

**Question 2(a) (Spare copy)****Table 1**

<b>Subatomic particle</b>	<b>Relative mass</b>	<b>Relative charge</b>
<b>electron</b>	<b>0·0005</b>	
<b>proton</b>		<b>+1</b>
<b>neutron</b>	<b>1</b>	

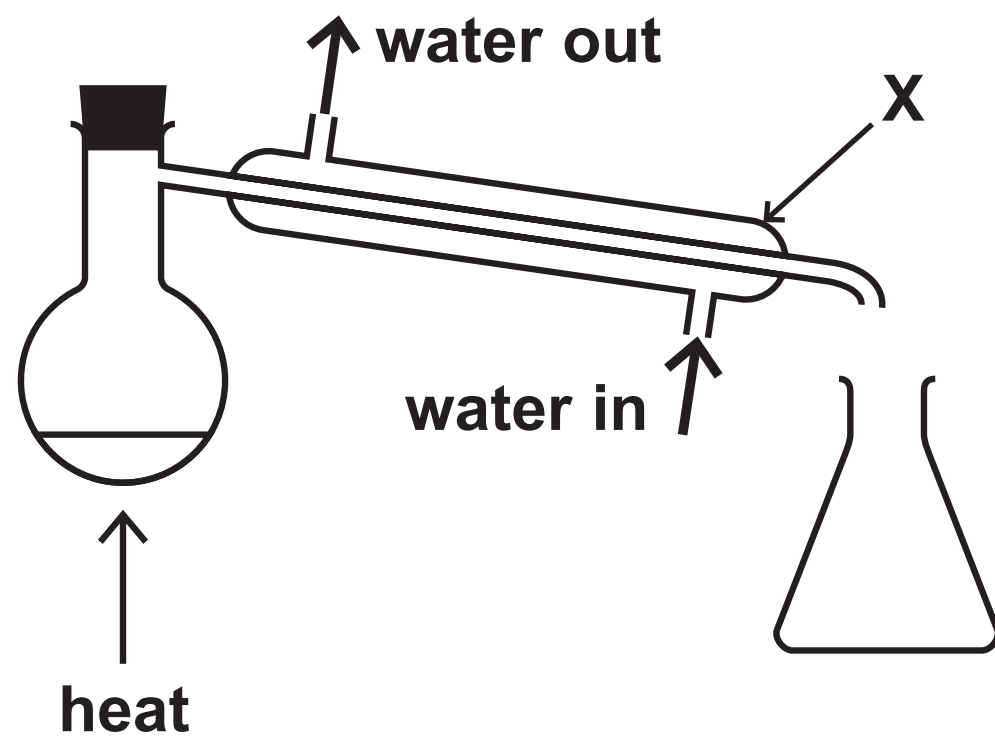
## Question 2(b)

Table 2

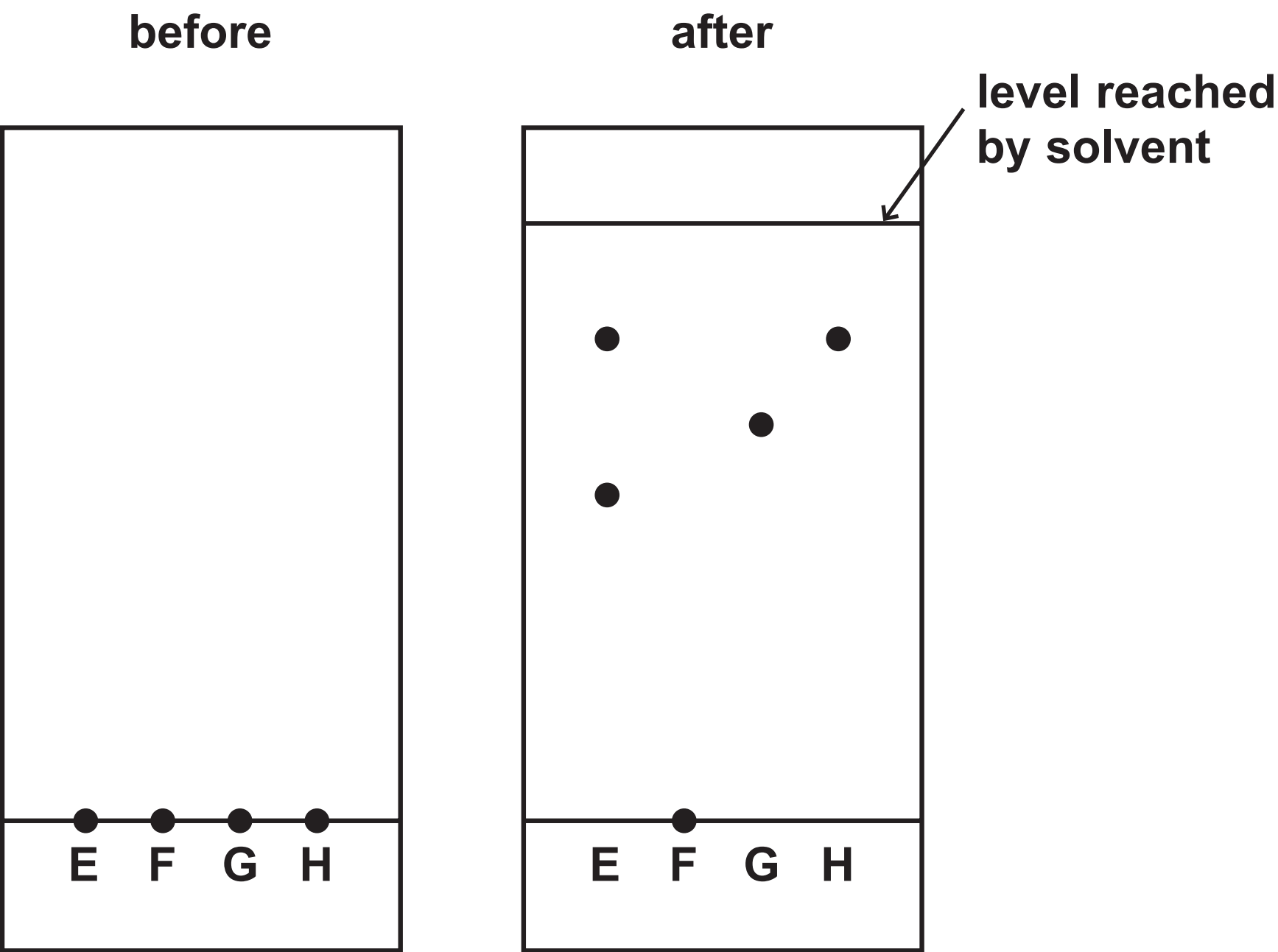
Species	Number of protons	Number of neutrons	Number of electrons
U	8	10	8
V	9	10	10
W	11	12	10
X	11	12	11
Y	12	12	12
Z	12	13	12



## Question 3(b)



Question 4



Question 5(a)(i)

molecular formula	C <sub>2</sub> H <sub>6</sub>
name	
empirical formula	
displayed formula	

Question 5(a)(i) (Spare copy)

molecular formula	C <sub>2</sub> H <sub>6</sub>
name	
empirical formula	
displayed formula	

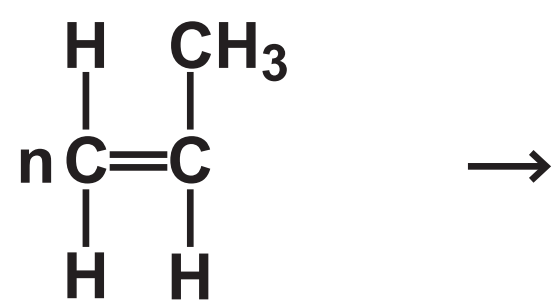
Question 5(b)(ii)

alkene 1	alkene 2
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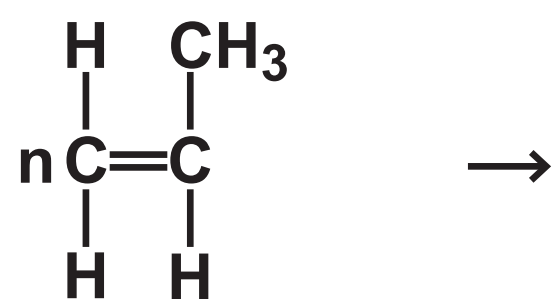
Question 5(b)(ii) (Spare copy)

alkene 1	alkene 2
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## Question 5(c)(i)



## Question 5(c)(i) (Spare copy)





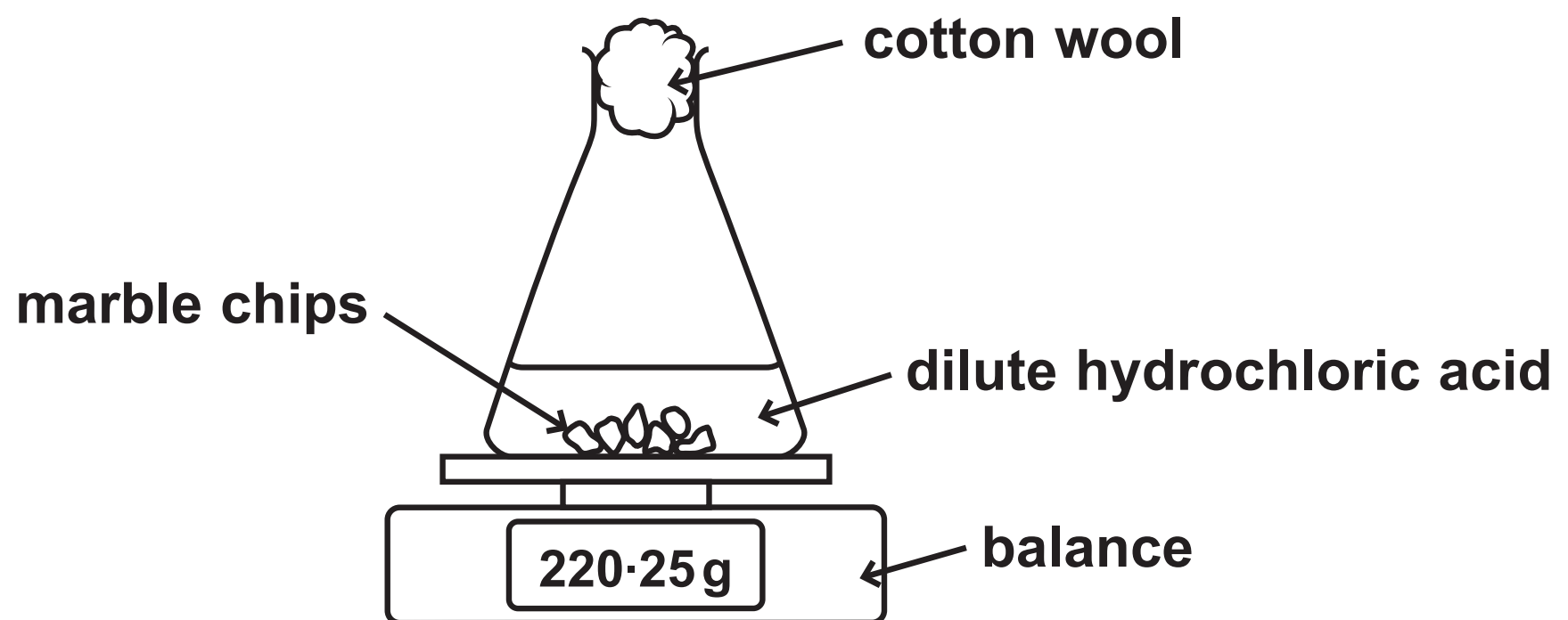
**Question 7(b)(i)**

<b>temperature of the acid at the start in °C</b>	
<b>highest temperature reached in °C</b>	
<b>temperature rise in °C</b>	<b>20.8</b>

Question 7(b)(i) (Spare copy)

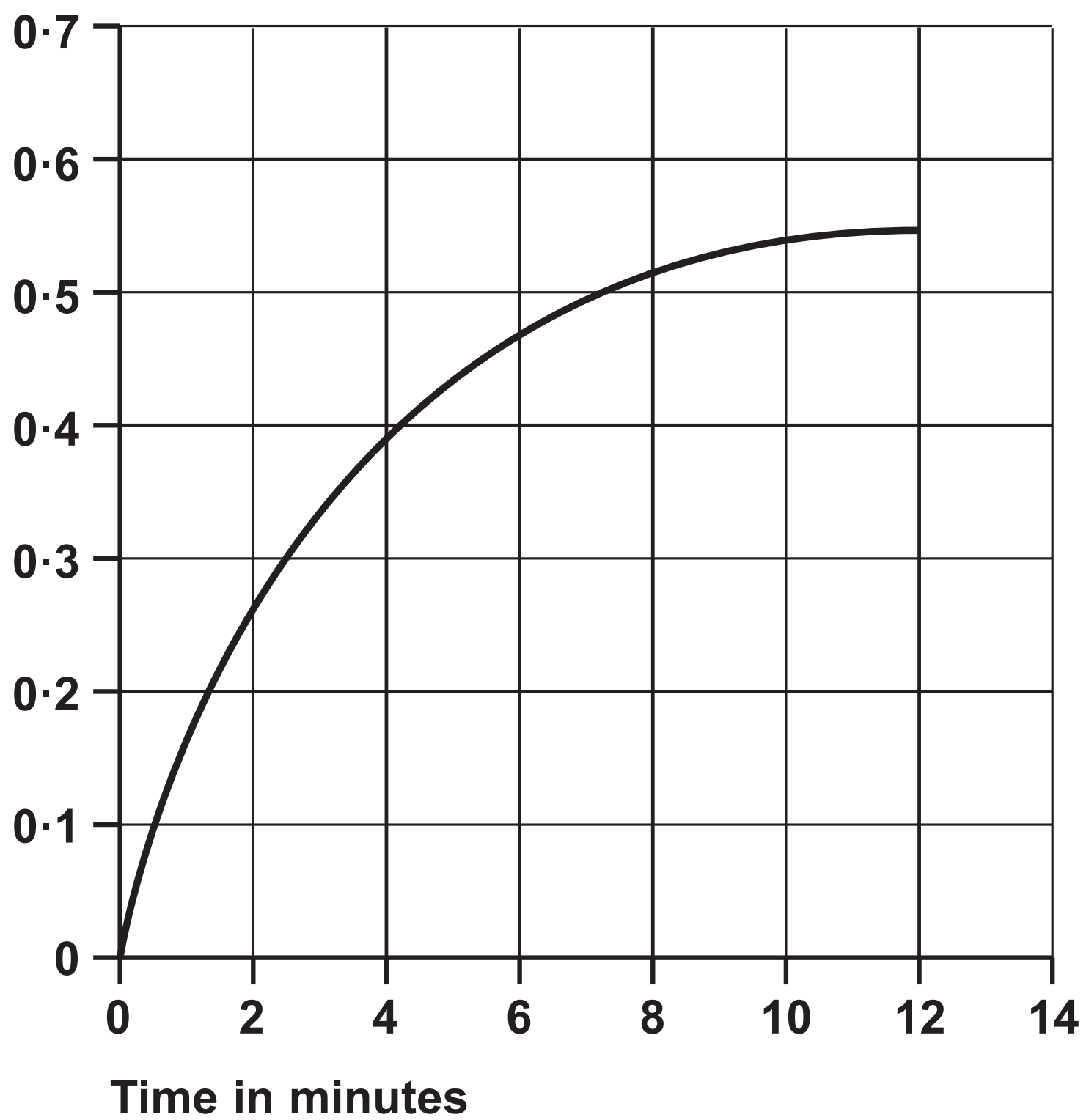
temperature of the acid at the start in °C	
highest temperature reached in °C	
temperature rise in °C	20.8

## Question 9



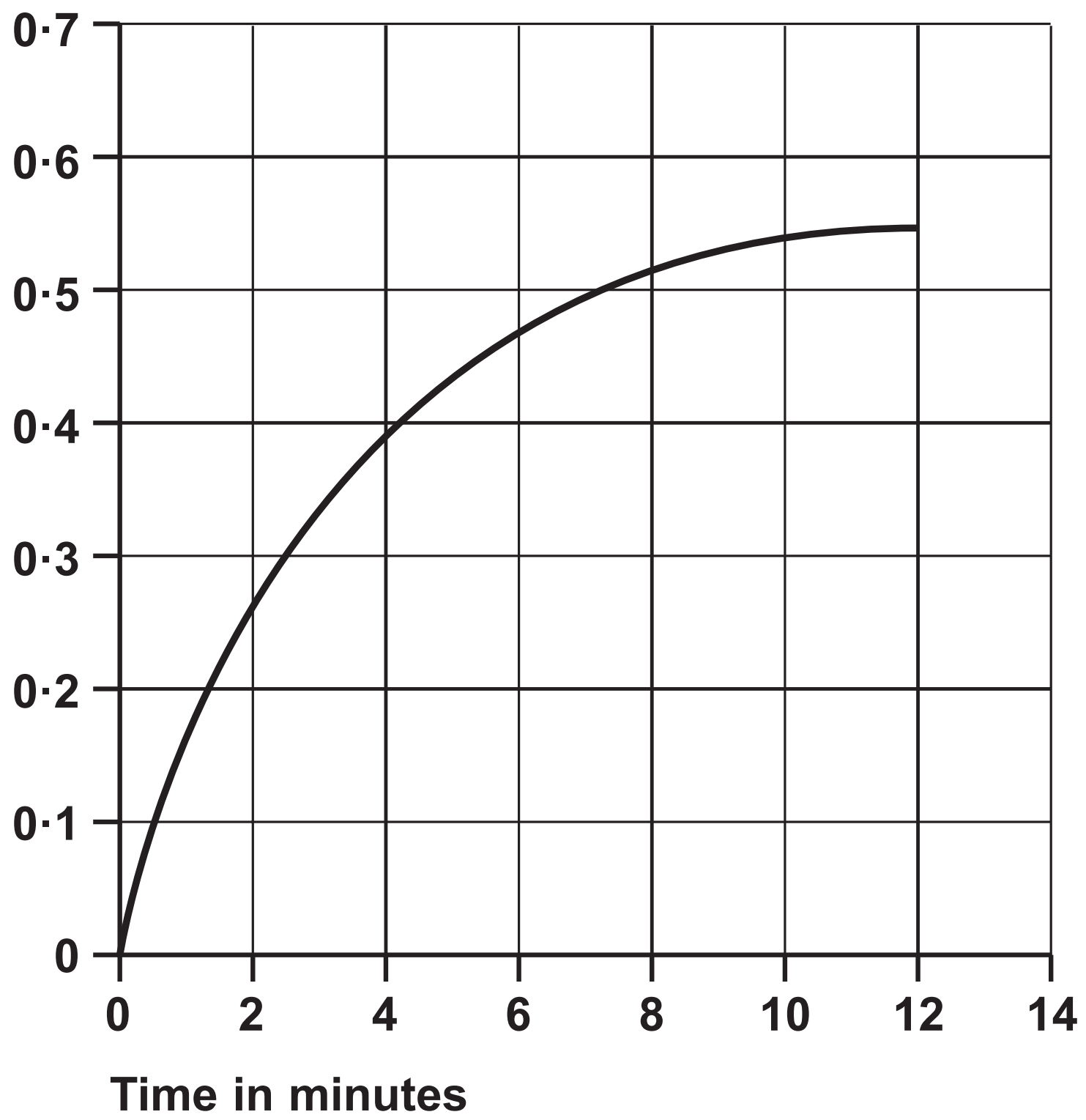
## Question 9(b)

Decrease in  
mass in g



## Question 9(b) (Spare copy)

Decrease in  
mass in g



## Question 10(a)

