

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

**Combined Science**  
**PAPER 4**  
**Higher Tier**

**Diagram Booklet**

## INSTRUCTIONS

**THIS DIAGRAM BOOKLET MUST NOT BE RETURNED WITH  
THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

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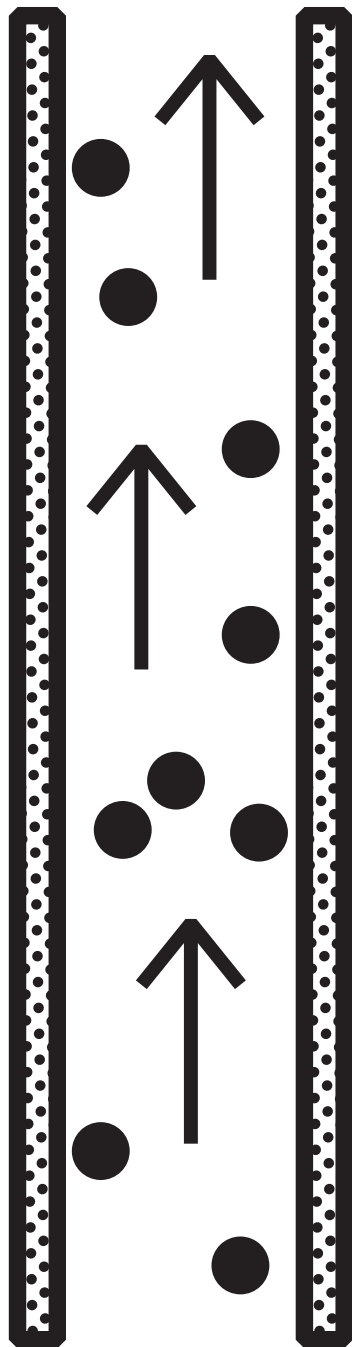
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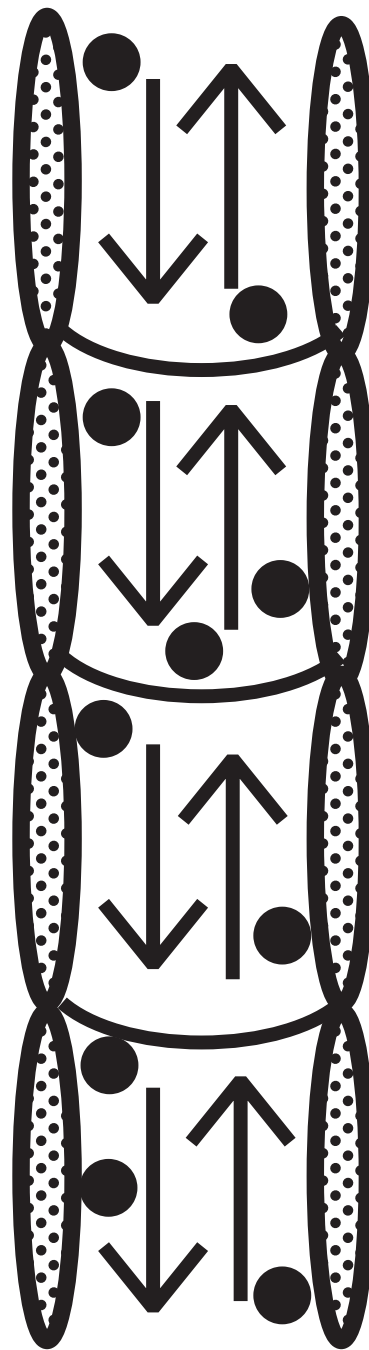
# Question 1(a)

Figure 1

xylem



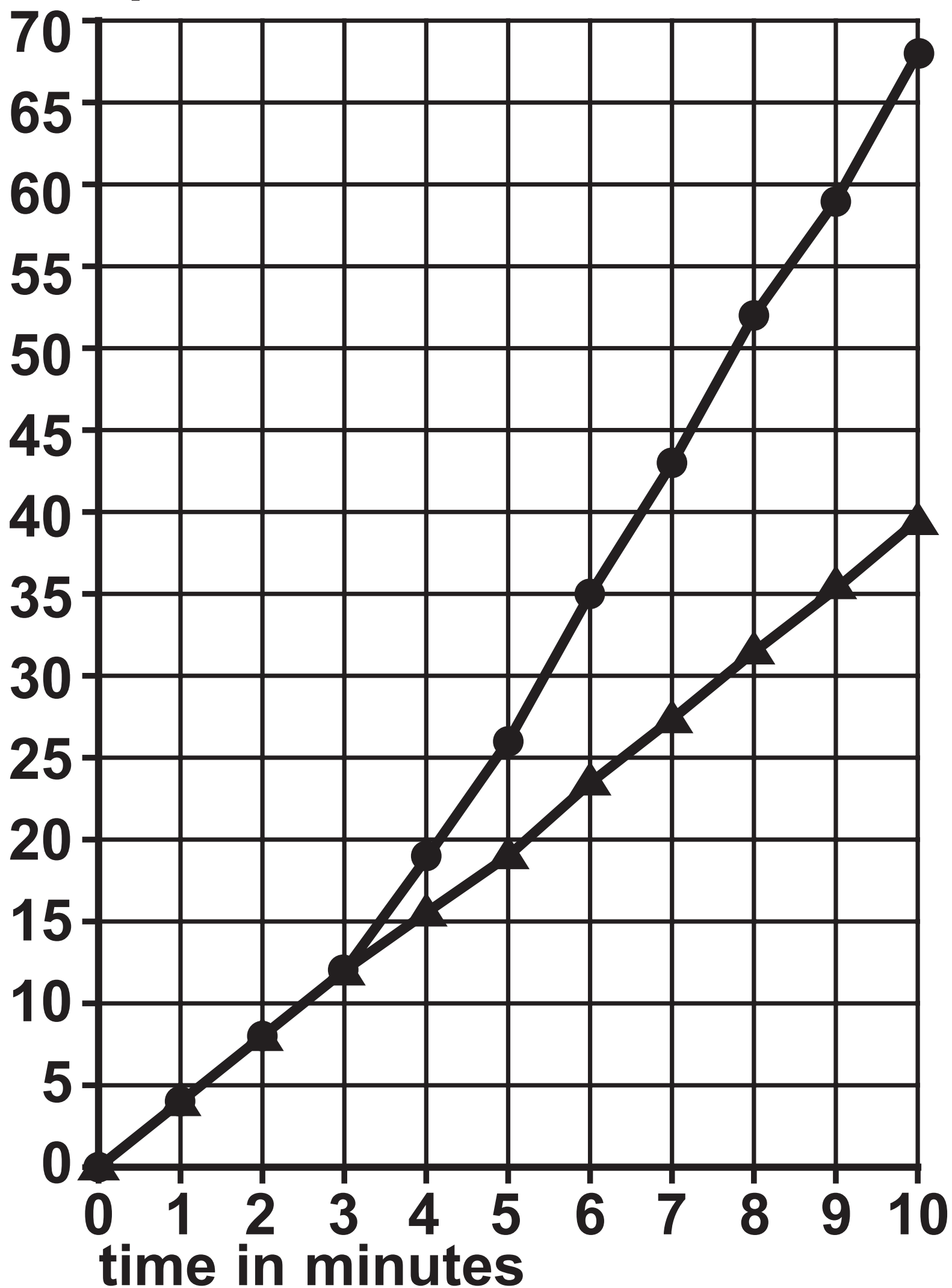
phloem



## Question 1(b)

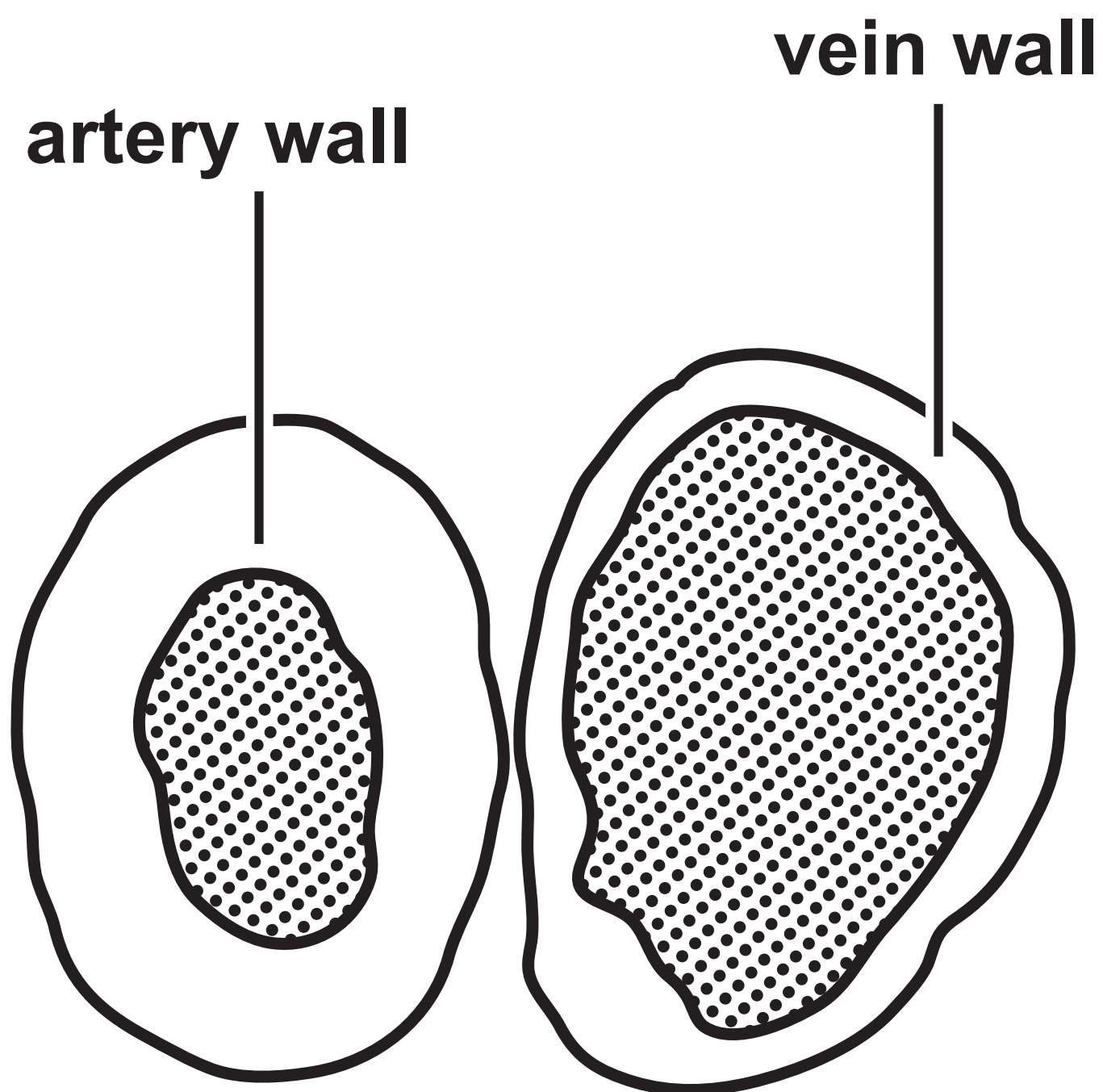
Figure 2

—●— fan switched on after three minutes  
—▲— fan not switched on  
volume of water taken up  
by the plant in  $\text{mm}^3$



## Question 2(a)

**Figure 3**



Question 4(c)

Figure 6

blood test	woman's result	normal range
TSH level	5.6mU/l	0.4 to 4.9mU/l
thyroxine level	27.5pmol/l	9.0 to 21.0pmol/l
red blood cell count	5.2 × 10 <sup>6</sup> cells/μl	4.2 to 5.4 × 10 <sup>6</sup> cells/μl
glucose level	82.0mg/dl	72.0 to 99.0mg/dl

Question 5(a)(iii)

Figure 8

type of exercise	heart rate in bpm				
	0 minutes	5 minutes	10 minutes	15 minutes	20 minutes
running	90	156	168	180	180
walking	90	96	90	96	90



Question 6(a)

Figure 9

month	number marked in the first sample	size of the second sample	number of recaptured animals	population size
March	18	22	8	50
July	12	18	10	

**Question 2(a)**

**(Source adapted from: © The University of Kansas Medical Center)**