

Key area 6 - The need for transport (plants) homework

1. a) Why is water an important resource for plants?

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b) Name the vessels which transport water throughout the plant.

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c) As well as water, what other substances are transported in this vessel?

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2. An experiment was carried out to investigate the rate of water loss in a cherry laurel tree.

The average rate of water loss was measured every 10 days for 70 days. The results are shown in the table below.

Time (days)	Average rate of water loss (cm ³ per hour per kg of tree)
0	5.0
10	4.7
20	4.6
30	3.2
40	2.4
50	3.8
60	2.3
70	2.0

a) Calculate the percentage decrease in rate of water loss between day 0 and day 70.

_____ %

1

b) Express, as the simplest whole number ratio, the rates of water loss from day 20 and day 60.

_____ : _____

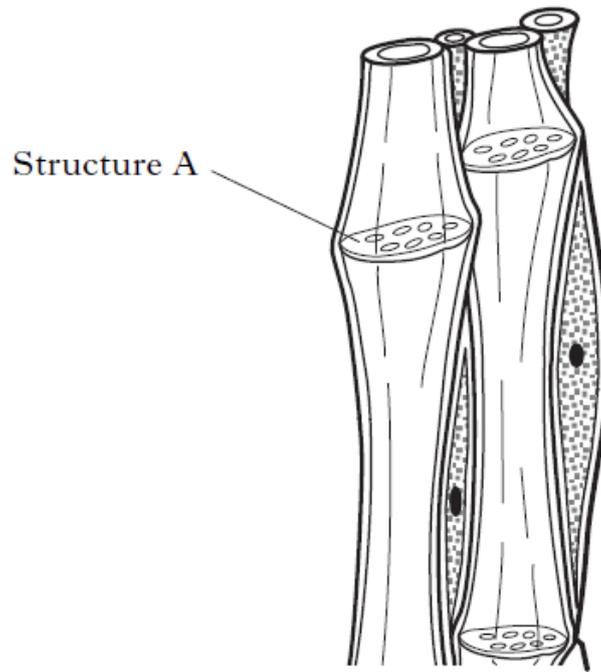
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c) During which 10 day period was there the greatest decrease in rate of water loss? Tick the correct box.

Day 20-30 Day 30-40 Day 40-50 Day 50-60

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3. The diagram below shows a plant transport tissue.



a) Name the plant transport tissue shown in the diagram and state the substance it transports.

Tissue _____

Substance transported _____

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b) Name the pores found on the leaves of plants.

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c) What is the function of these pores?

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d) Name the cells which control the opening and closing of the pores.

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