

Learning outcome:

START

1

- As biologists we want to see the effect of temperature on plant growth.
- The rate of transpiration needs to be measured in order to estimate
- The temperature needs to be kept constant in order to estimate
- The amount of water lost by the plant is to be measured in order to estimate
- The amount of water lost by the plant is to be measured in order to estimate
- The amount of water lost by the plant is to be measured in order to estimate

Fig. 1.1 and Fig. 1.2 show how the rate of transpiration can be measured.



Fig. 1.1



Fig. 1.2

Topic 8 (effect of temperature on plant growth)

2

- (a) (i) Measure the initial length of the seedlings in the second set and record these measurements in Table 1.1.

Table 1.1

Length of seedlings (cm)		
seedling	grown in refrigerator at 4°C	grown in a warm place at 20°C
1		
2		
3		
4		
5		
mean		

- (ii) Calculate the mean length of the seedlings in Fig. 1.1 and the mean length of the seedlings in Fig. 1.2 and also record these values in Table 1.1.

Numeracy link!

Literacy link!

3

- (b) (i) Describe and explain the differences in appearance of the set of seedlings grown at 4°C and those grown at 20°C.

4

- (ii) Explain why it is necessary to measure the length of more than one seedling and calculate the mean.

Checklist

- Can you work out the mean length?
- Can you use a ruler accurately? (hint – in mm!)

Key words

Calculate: A numerical answer is needed. You should show any working, especially when there are two or more steps in a calculation. You should always include relevant units or symbols. E.g. calculate the magnification of a specimen.

Explain: You may have to give reasons or refer to a theory depending on the context of the question. E.g. explain why the rate of transpiration changes with changes in light intensity.

Extend yourself!



/12

Igcse Biology Alternative To Practical Past Questions

Primrose Kitten

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