

Learning outcome:

START

1

- As biologists we want to see the effect of temperature on plant growth.
- The rate of transpiration needs to be slow so that water is available.
- The temperature needs to be low so that the light is not too bright.
- The seedlings are about the same height so it is fair to compare them.
- The other conditions are the same for both groups so it is a fair test.

Fig. 1.1 and Fig. 1.2 show how we can set up a practical test of seedlings and their roots.



Fig. 1.1



Fig. 1.2

Topic 8 (effect of temperature on plant growth)

2

- Measure the initial length of the seedlings in the beakers 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		

- 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

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

4

- 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

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CH Cherryholmes

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