

# Alternative to practical

Learning outcome:

**START**

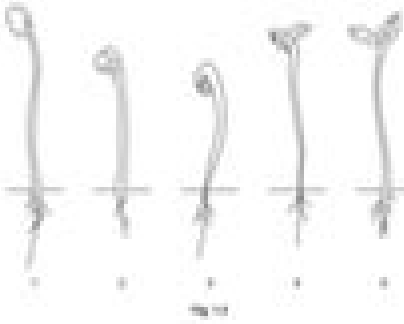


- 1. Investigate how water will rise through a plant stem.
- 2. The use of microscopes with and without the light microscope.
- 3. The microscopes required for the practical.
- 4. The practical set-up for the light microscope.
- 5. The other practical set-up for the light microscope.

Fig. 1.1 shows the first three stages of germination of a seedling.



Diagram showing the last three stages of germination of a seedling at 20°C. The seedlings are significantly taller and have developed leaves.



## Topic B (effect of temperature on plant growth)



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

Table 1.1

Length of seedling (cm)		
seedling	grown in refrigerator at 4°C	grown in warm place at 20°C
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

- (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!**



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

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

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- 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!**



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# Igcse Biology Alternative To Practical Past Questions

**J Rink**



**Igcse Biology Alternative To Practical Past Questions:**

## **Igcse Biology Alternative To Practical Past Questions** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Igcse Biology Alternative To Practical Past Questions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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