

# OCR A-level Biology

## Revision sheets

**PAGE 1**  
**ROOT TIP EXAMINATION**

**AIMS/INTRODUCTION**  
To examine the structure of the root tip.

**THEORY**  
The root tip is the region of the root where new cells are produced. It is the site of active cell division and growth.

**EXPERIMENTAL PROCEDURE**  
1. Cut a thin slice of the root tip (approx. 1 mm) using a sharp razor blade.  
2. Stain the root tip with a solution of toluidine blue (a basic dye) to stain the cells.  
3. Mount the root tip on a slide with a drop of water and a cover slip.

**RESULTS**  
The root tip shows a distinct region of active cell division (the meristem) at the tip. The cells in this region are small and densely packed. The cells further up the root are larger and more elongated.

**CONCLUSION**  
The root tip is the site of active cell division and growth. The cells in the meristem are small and densely packed, while the cells further up the root are larger and more elongated.

**PAGE 2**  
**PHOTOTROPISM**

**AIMS/INTRODUCTION**  
To investigate the response of a plant to light (phototropism).

**THEORY**  
Phototropism is the growth of a plant towards a light source. It is caused by the hormone auxin, which is produced in the shoot apical meristem and moves down the stem. Auxin causes the cells on the side of the stem furthest from the light to elongate, causing the stem to bend towards the light.

**EXPERIMENTAL PROCEDURE**  
1. Grow a plant in a pot with a transparent cover that can be rotated.  
2. Rotate the cover to different angles and observe the direction of growth.

**RESULTS**  
The plant grows towards the light source. The angle of growth increases as the angle of the cover increases.

**CONCLUSION**  
The plant shows a positive response to light (phototropism). The growth is caused by the hormone auxin, which causes the cells on the side of the stem furthest from the light to elongate.

**PAGE 3**  
**EXPERIMENTAL PLANTING TO INVESTIGATE MICROBIAL GROWTH**

**AIMS/INTRODUCTION**  
To investigate the growth of microorganisms in different media.

**THEORY**  
Microorganisms can grow in different media, including liquid, solid, and semi-solid media. The growth of microorganisms can be measured by the turbidity of the liquid medium or the size of the colonies on solid media.

**EXPERIMENTAL PROCEDURE**  
1. Inoculate different media with a known volume of a microbial suspension.  
2. Incubate the media at a constant temperature for a fixed period of time.  
3. Measure the growth of the microorganisms using a spectrophotometer or by counting the colonies.

**RESULTS**  
The growth of microorganisms is highest in liquid media and lowest in solid media.

**CONCLUSION**  
Microorganisms grow best in liquid media. The growth is caused by the availability of nutrients and water in the liquid medium.

## Required practicals / PAGs

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**JA Banks**



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