

OCR Biology A – Practical Skills

1. Microscopy

a) Using a light microscope at high and low power

- Maximum resolution = 200 nm due to wavelength of light
- Resolution = ability to see two objects separately – this limits your ability to see detail of small structures e.g. inside a mitochondrion etc
- Staining allows you to see more detail and provides contrast between different tissues/organelles.

i) Drawings

- These need to occupy at least half the space provided
- Proportions of the cell/tissue in the drawing should be the same as the specimen/photograph
- Only draw what you see...not what you have learnt from a textbook etc!
- Use thin unbroken HB pencil lines
- Do not shade or colour

High power

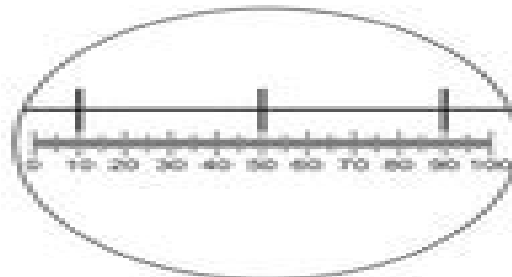
- Drawings should have a title and the magnification used/scale bar
- You usually have to add **annotations** (notes to give extra information/detail) and **labels** (stating the name of the structure). Use a ruler for lines.

ii) Making measurements

- An eyepiece graticule has to be calibrated using a stage micrometer

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- 24 The diagram shows a stage micrometer, with divisions 0.1 mm apart, viewed through an eyepiece containing a graticule.



The same eyepiece is now used to examine a blood smear.

How many graticule divisions will cover the diameter of a white cell of 10 μm ?

- A 1 B 4 C 10 D 20

- To find the actual size of a cell/organelle from a photograph remember to :

Ocr Biology Practical Past Papers

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