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WJEC GCE AS Level

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# BY3

# Microscopy

# Guide

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## About This Book

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# Microscopy

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A guide to the way in which  
the BY3 Microscopy  
drawings are marked.



# Microscopy

## Microscope Rules

1. Use a sharp pencil (an obvious one, right?)
2. Label all important/visible parts using label lines that do not cross.
3. DO NOT USE ARROWS
4. Give a title to your drawing which includes the magnification used and the type of sample viewed, e.g. cross section (C.S) or (T.S) for Transverse Sections
5. Use brackets around large items like a vascular bundle
6. Oh and don't forget to put your name and candidate number on the back...

## How The Microscope Drawing is Marked

The Drawing you produce is sent along with the other part of your BY3 Practical Assessment (the experiment write up) to the exam board who will mark it.

So to ensure you get the best mark remember to complete all of the following:

Use Clean, single, sharp and complete lines.

Do NOT shade individual cells.

[2]

Draw all tissues using the correct proportions.

[1]

Identification of the magnification used to view the specimen

A Title indicating the specimen being use and the sample type e.g cross section or transverse section.

[0 - But Recommended]

Correct Identification of the main tissues.



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Correct Identification of the main structures.

Use of unambiguous labeling to do so.

[2]

*2 Marks are only awarded if most the appropriate labels are present*

*1 Mark if some are missing*

At least two measurements marked on drawing.

Measurements across two different tissue layers.

Marked measurements in eye-piece units.

[1]

#### Some Notes on Eye-Piece Units & Measurements

*The two lines you draw on your microscope drawing will be measured and used to judge proportion, because of this it is advisable to ensure that the end of each line accurately marks the edge where the section is measured.*

*If you so wish the line can be drawn across the whole specimen.*

*If it is it must also be across one tissue layer.*

*A key to explain the meaning of epu (eye piece units) is required somewhere on the front of your drawing. (of course only if you use epus)*

*The lines that you draw must be on the drawing and not to the side.*

*Endolithium *\*should\** be shown as two lines.*

*The lines shown should end in small lines at right angles to the main measurement line, however small dots may be used if preferred.*

#### **REMEMBER**

**YOU ARE ONLY REQUIRED TO SUBMIT ONE DRAWING SELECTED FROM THOSE WHICH YOU COMPLETE THROUGHOUT THE COURSE SO DON'T WORRY IF YOU MESS ONE UP - YOUR MORE THAN LIKLEY ABLE TO DO IT AGAIN.**

**GOOD LUCK!**