

# AQA Biology Required Practical

## 1 Microscopy

A thin layer is needed so that the light from the microscope can pass through it. It also helps you to see individual cells.

### Slide preparation

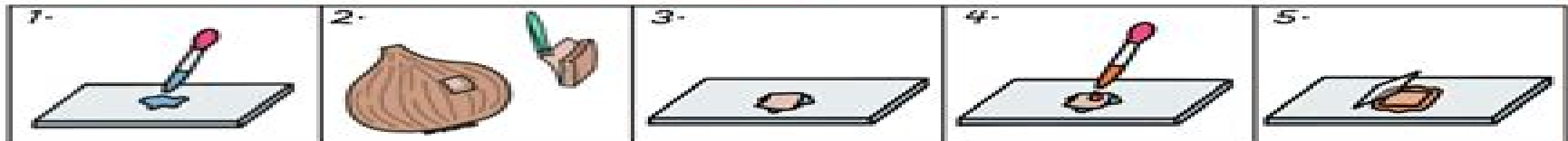
1. Add a drop of water to a slide
2. Use tweezers to peel a thin layer of onion skin from the inner surface
3. Place onion onto the water droplet and flatten
4. Add a drop of iodine onto the onion
5. Lower a coverslip onto the slide at an angle

Iodine is a stain which is used to see parts of the cell by staining them e.g. the nucleus

The coverslip is lowered at an angle to prevent air bubbles from forming which prevent you from seeing cells

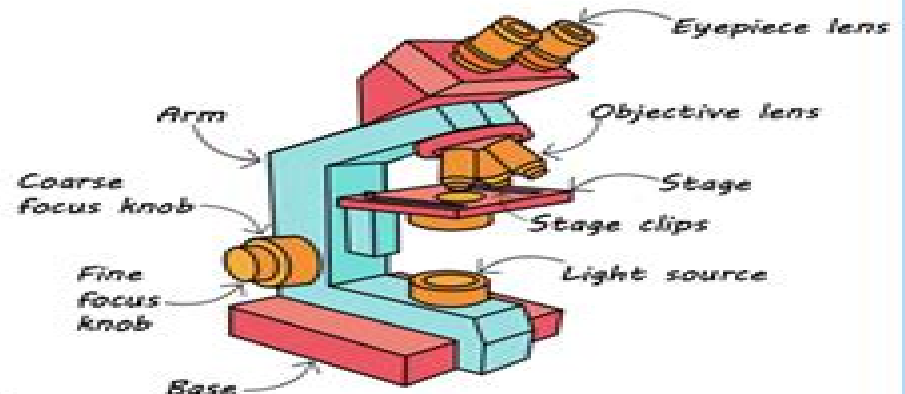
### Safety considerations

- Onion allergies
- Cuts from glassware (slides)
- Iodine is an irritant that can cause rashes, so wear goggles & gloves
- Sharp knife might cut you, so cut away from the body



### Using a Microscope

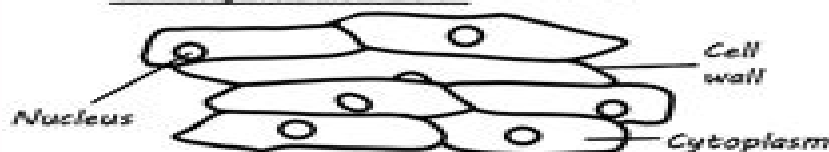
1. Turn the objective lens to the lowest magnification and put the stage to the bottom
2. Place the slide on the stage and secure with the stage clips
3. Look down the eyepiece and turn the coarse focus knob until you see cells
4. Turn the fine focus knob to focus on the cells to make them clear
5. Increase the objective lens to a higher magnification
6. Use only the fine focus knob to make cells clear
7. Draw a clear labelled drawing of some of the cells you see



### Drawing your cells

- Draw the cell accurately (correct shape & nuclei in the correct place)
- Draw using smooth lines (no sketching)
- Draw using continuous lines with no gaps
- Make sure cells are not overlapping
- Do not colour-in or shade anything
- Include total magnification & a scale bar
- Include a title of your drawing
- Label cell parts with ruled lines

Drawing of onion cells x400



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