

1. Using a light microscope and calculating magnification

(2017M)

1. Focusing a light microscope

- Place object on the stage below objective lens
- Focus by moving the objective lens and specimen apart rather than towards each other
- Use large focusing first to find areas of interest and then small focusing
- use low power first to find areas of interest
- adjust light intensity

2. Advantages of light microscopes to electron microscopes

- Living tissue can be observed
- Portable
- Cheaper
- Easier to use
- Possibility of observing movements
- Image is in colour

(Additional) Calculation of magnification

- Units
 - $1\text{mm} = 1000\mu\text{m} = 1000,000\text{nm}$
- Magnification: Image size/actual size
- Actual size: Image size/magnification

2. Estimation of osmolarity in tissues

1. How variables will be controlled in an experiment to estimate osmolarity of plant tissue

- Weigh all pieces to ensure the same amount of plant material (allow for comparison)
- Control surface area by having same shape
- Carry out experiment at the same temperature (eg. using a water bath or constant room temperature)
- All samples in solution for the same length of time
- All samples from the same plant (to minimize variability)
- Use a range of solution of the same solute
- Constant method of removing excess fluid before weighing tissue samples

(Additional) Definitions

- Osmolarity: measure of solute concentration
- Hypertonic: relatively higher osmolarity
- Hypotonic: relatively lower osmolarity
- Isotonic: same osmolarity

(Additional) Effects of osmolarity in tissues

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