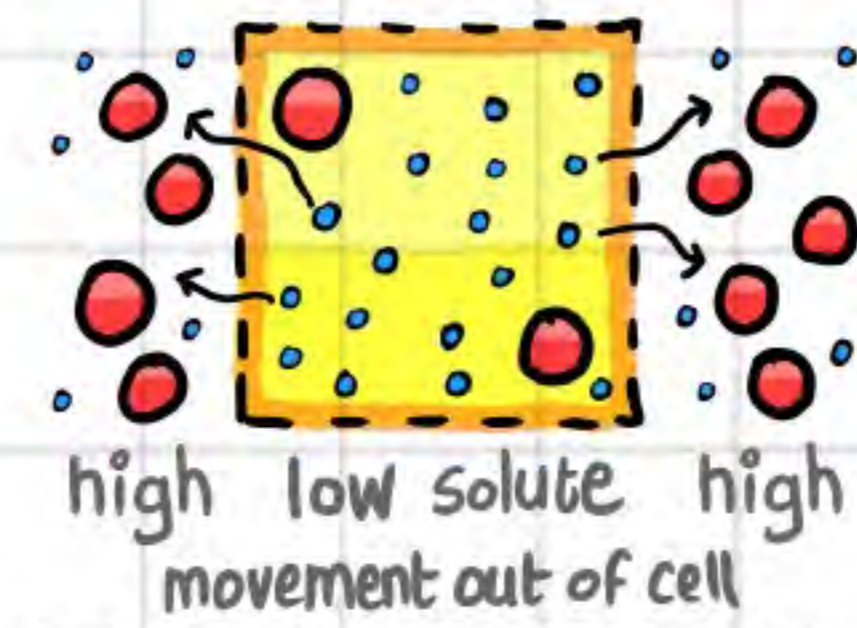
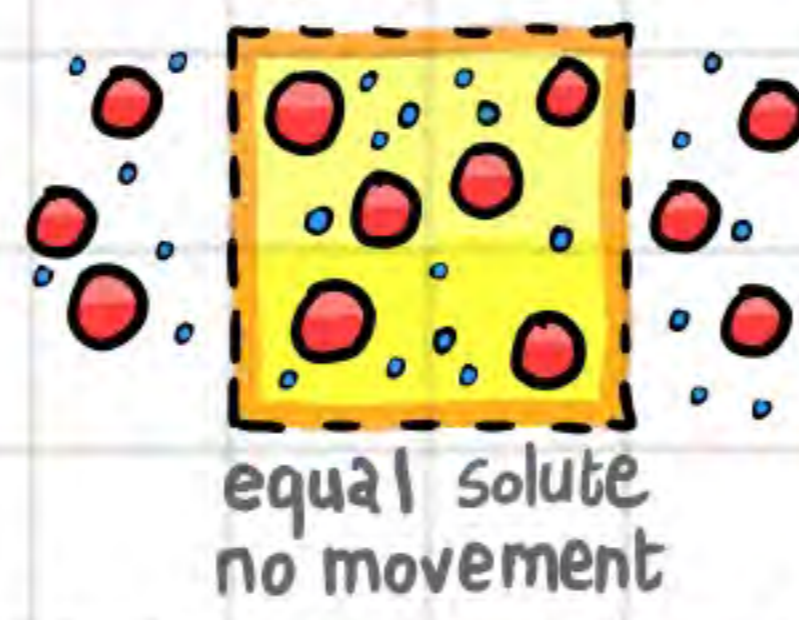
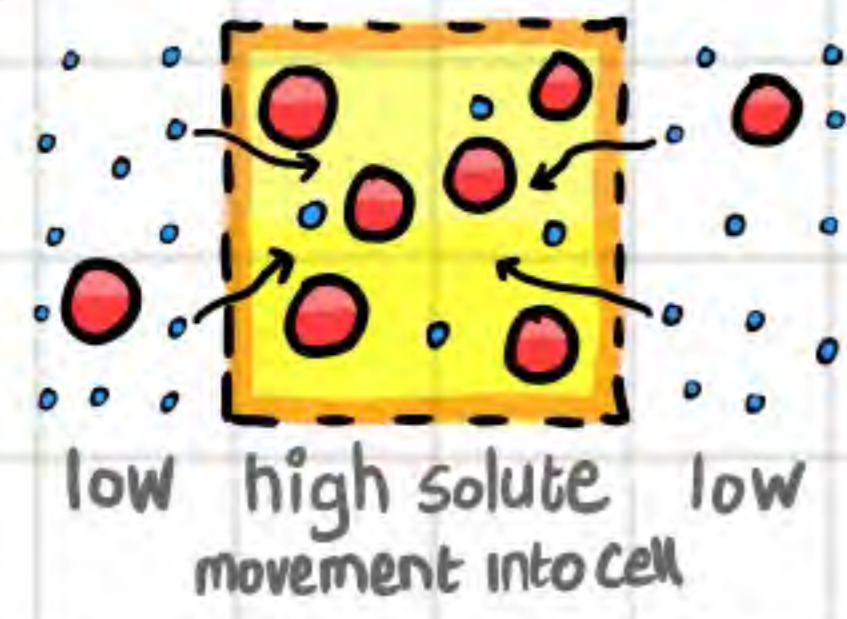


Topic B1 - Cell division and cell transport

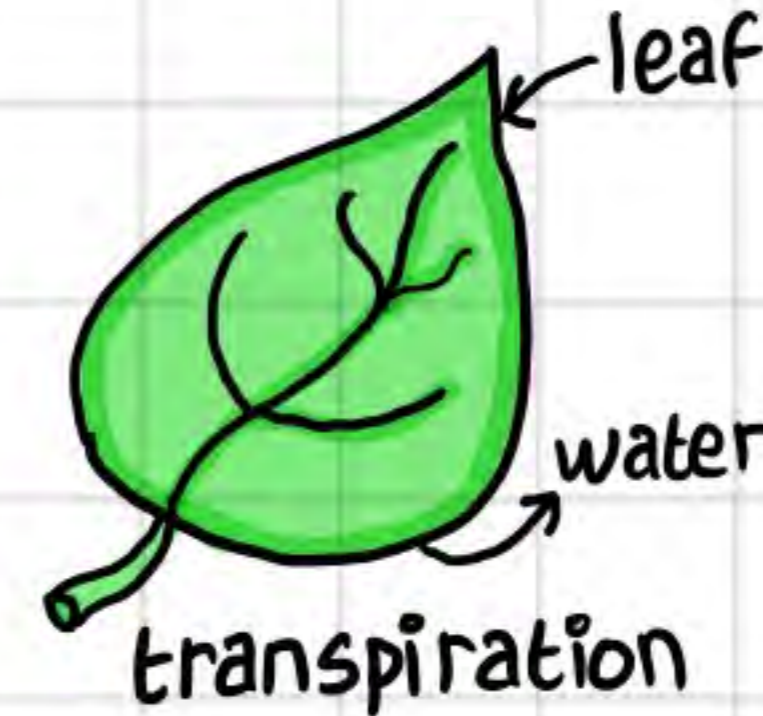
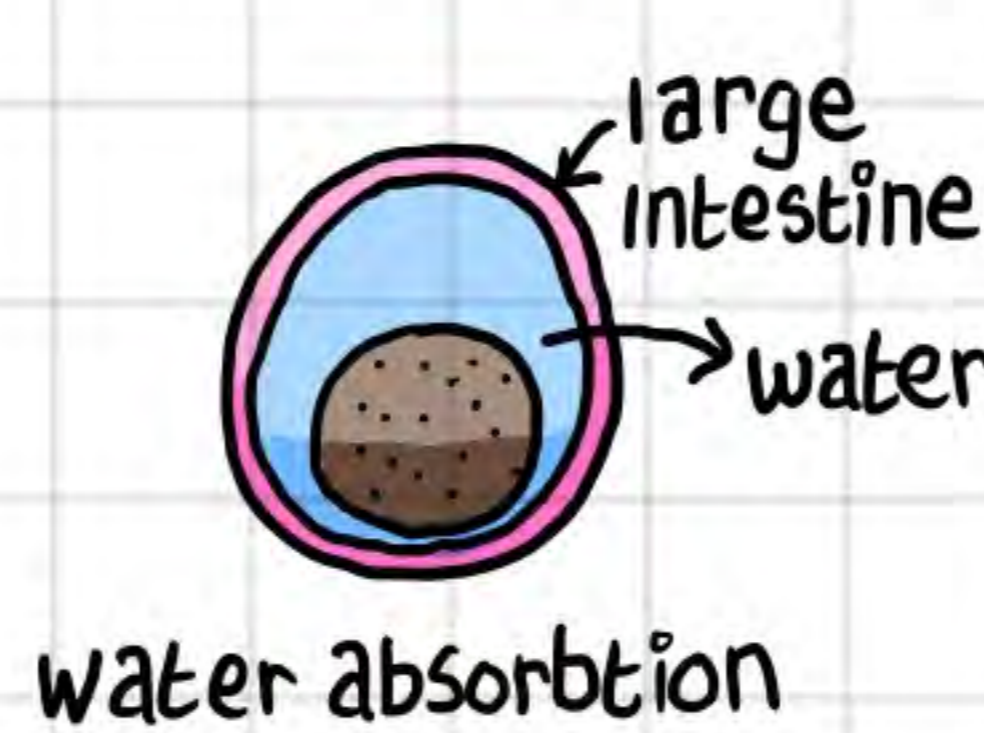
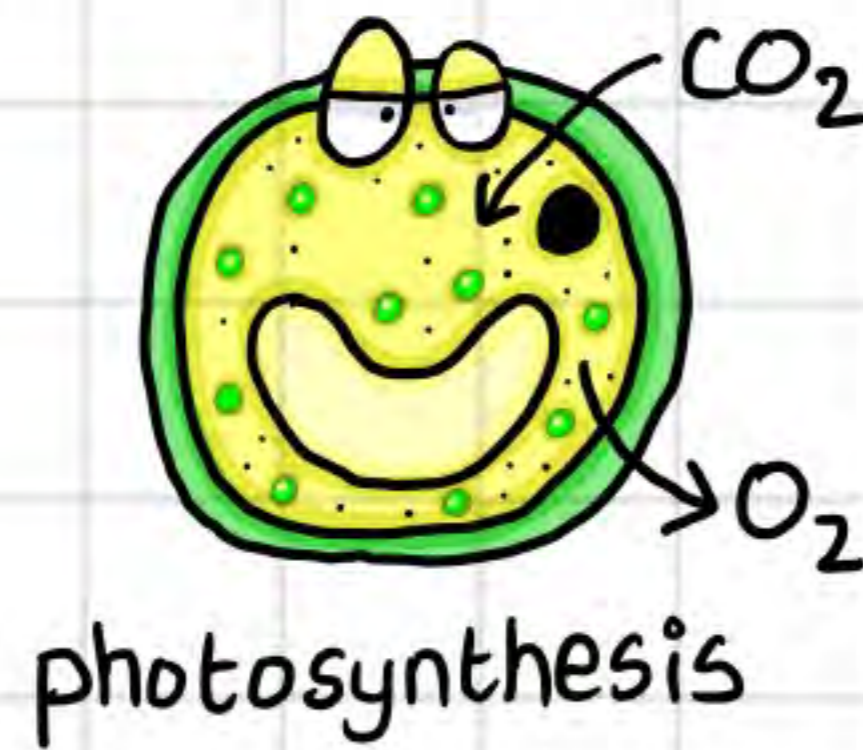
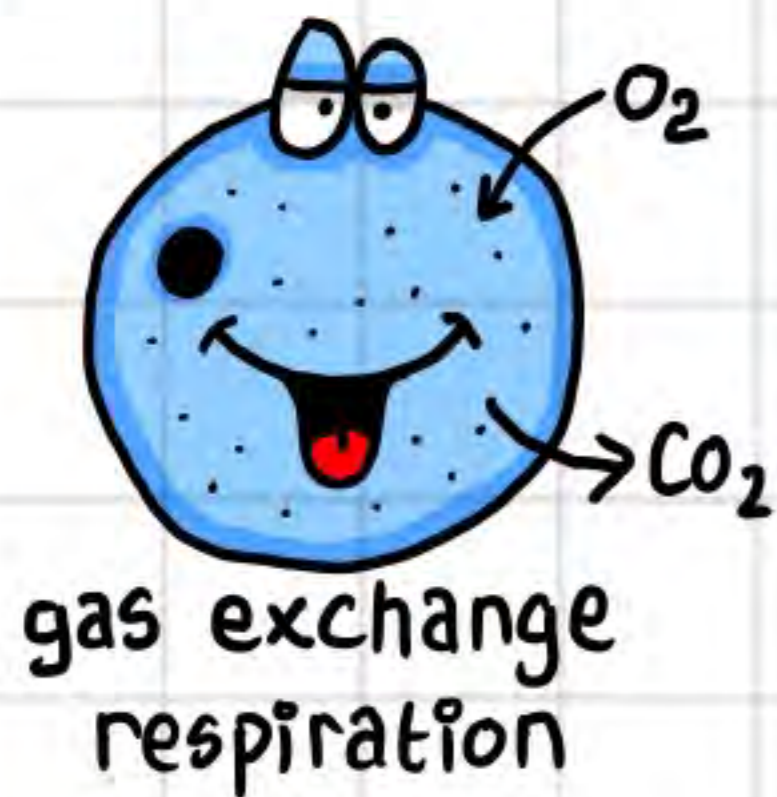
you need to know:

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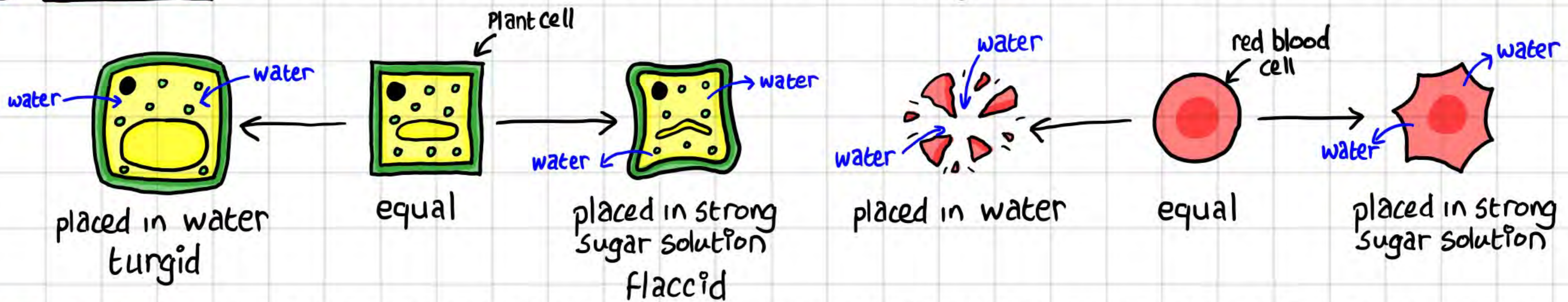
1 **Define** osmosis. Osmosis is the movement of water molecules from a **low solute** concentration to a **high solute** concentration through a partially permeable membrane.



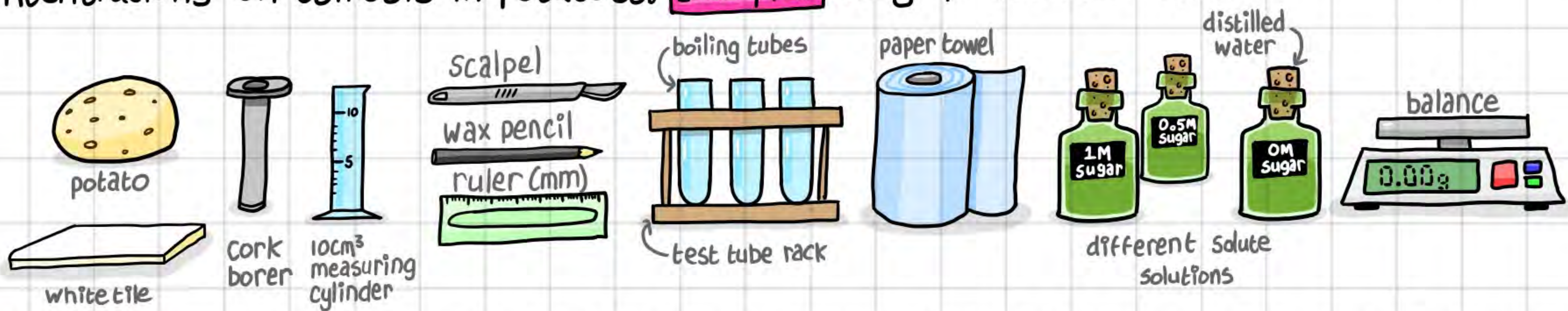
2 **Explain** the importance of diffusion. **Absorb** products required for cell processes. **Remove** waste products produced by cell processes.



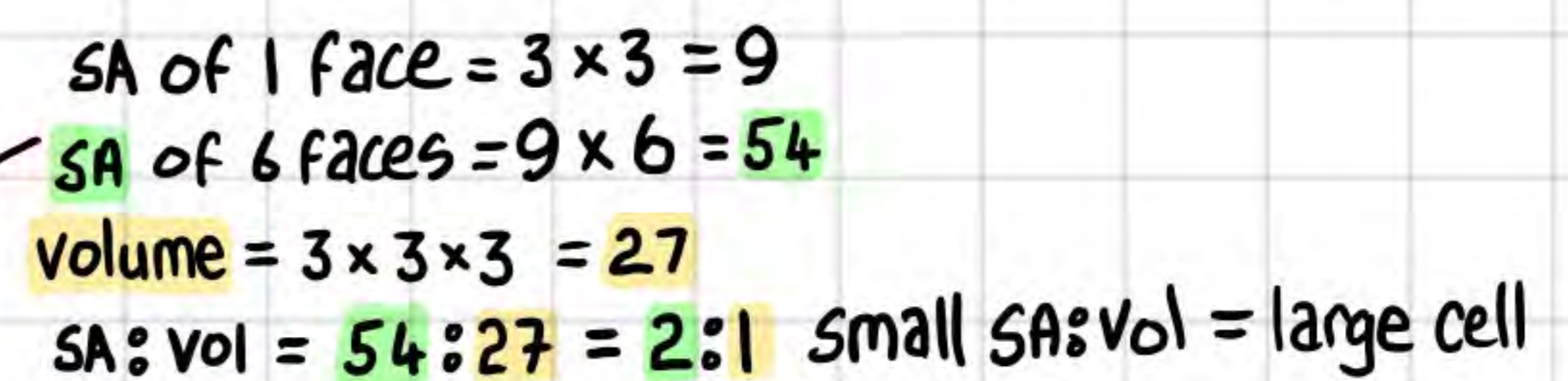
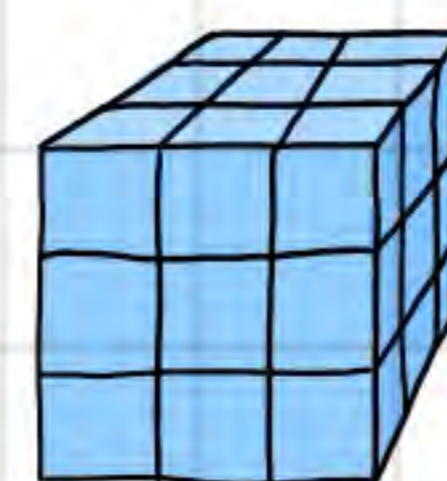
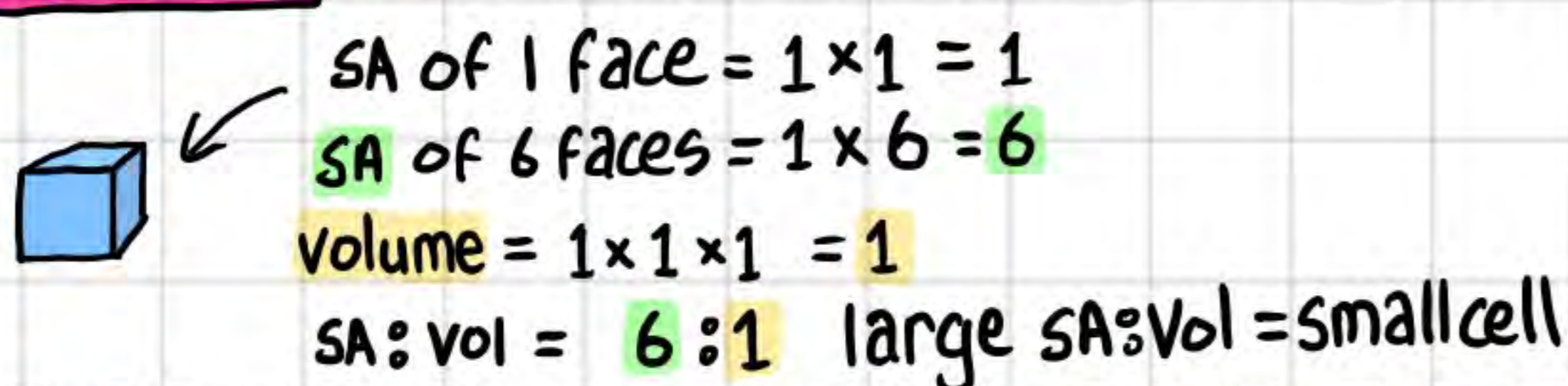
3 **Describe** the effects of different concentration of sugar solutions on plant and animal cells.



4 **Describe** how you would use the equipment below to find the effect of different solute concentrations on osmosis in potatoes. **Interpret** the graph from the results.



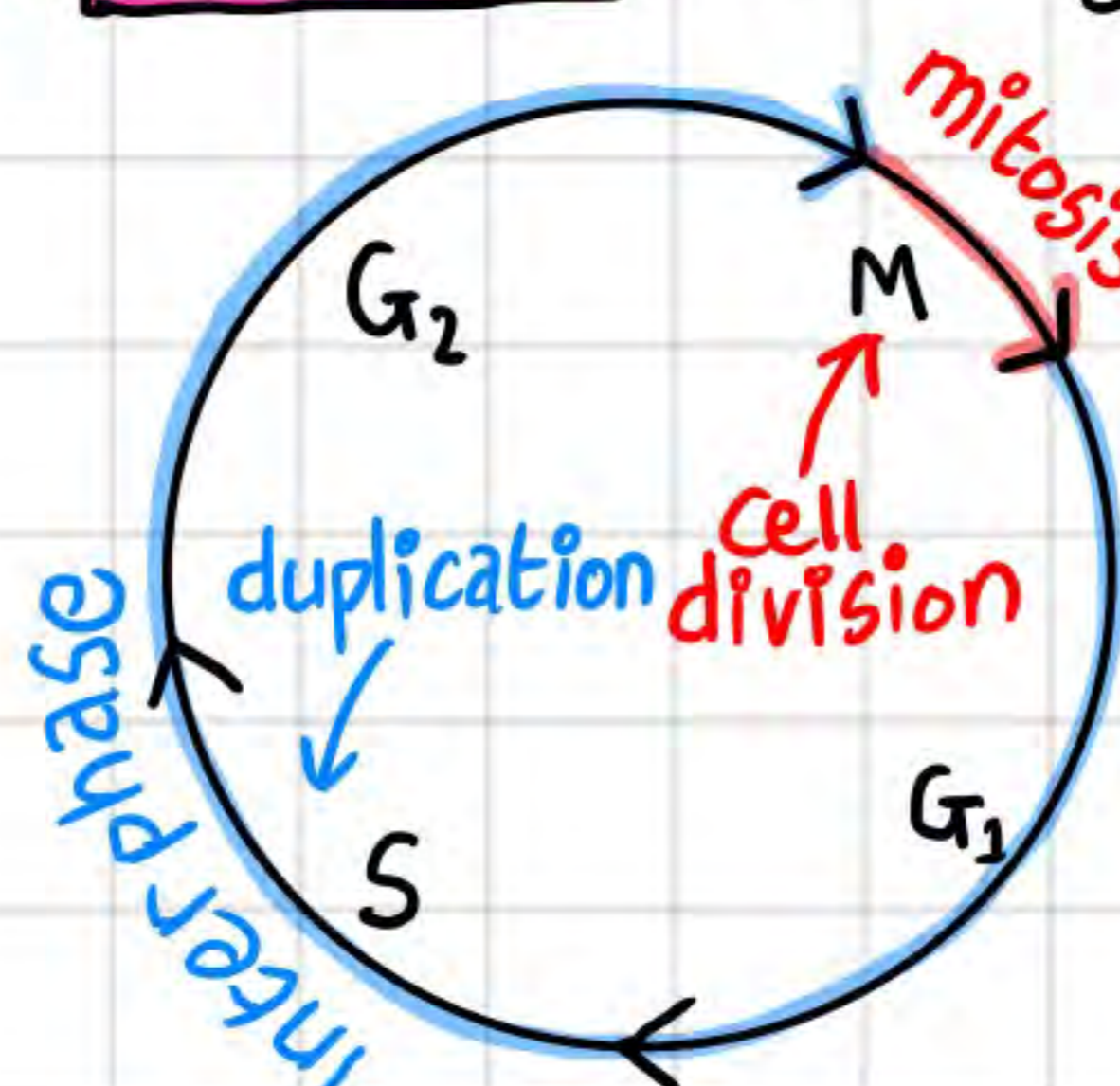
5 **Calculate** the surface area to volume ratio



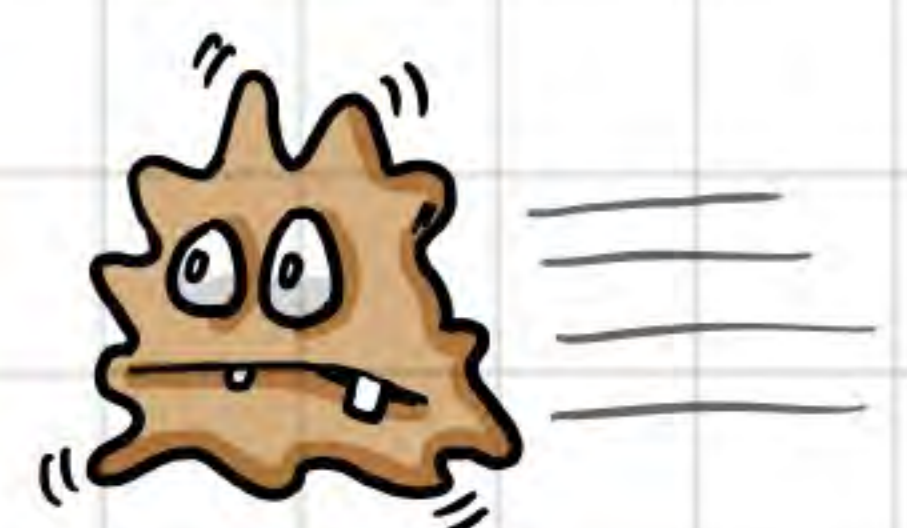
6 Cell membrane forms **surface area** of cell. controls exchange of materials.

cytoplasm forms **volume** of cell. metabolism occurs here

7 **Describe** the cell cycle



8 **Name** two types of tumour



benign

malignant