

# Knowledge organiser for Cells 1 – Year 7

7 life process all living things carry out

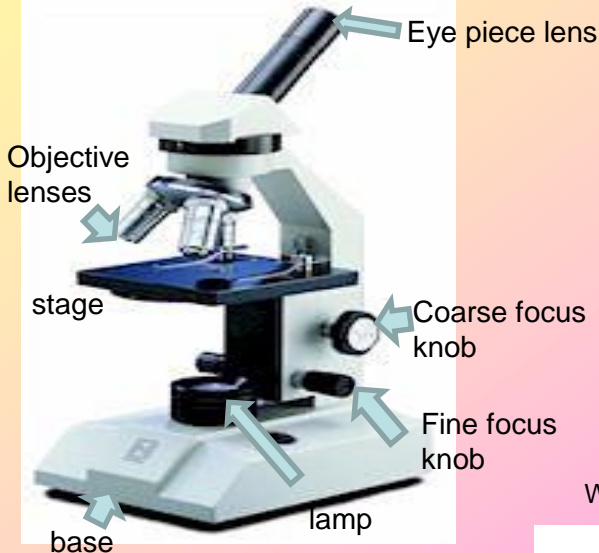
Movement  
Respiration  
Sensitivity

**MRS GREN**

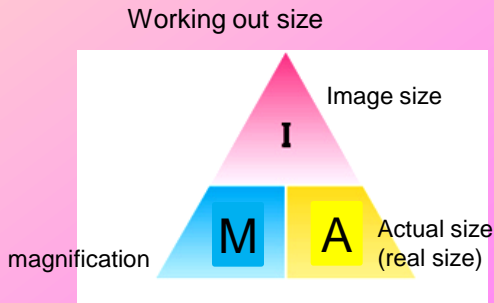


Growth  
Reproduction  
Excretion  
Nutrition

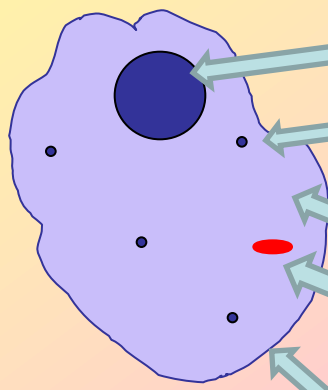
The light microscope



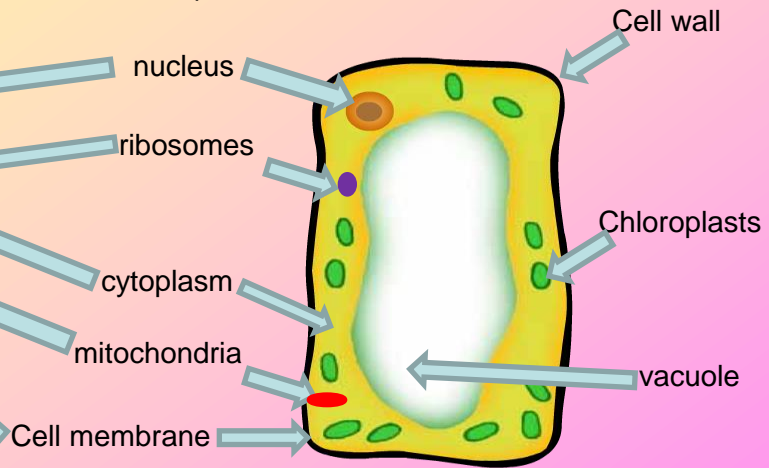
Microscope magnification =  
eyepiece lens x objective lens being used.



Animal cell



Palisade leaf cell (plant cell found in leaves)



Eukaryote= cell with a nucleus

Name of sub-cellular structure	function
Nucleus	Controls cells activities
Cell wall	Made of cellulose Rigid and structure Stops microorganisms getting in.
Cell membrane	Allows substances in and out of cell.
Cytoplasm	Watery-jelly like substance where all chemical reactions take place.
Vacuole	Sac that contains cell sap
Mitochondria	Aerobic respiration Glucose+ oxygen → carbon dioxide+ water + ENERGY
Ribosomes	Protein synthesis (proteins are made)