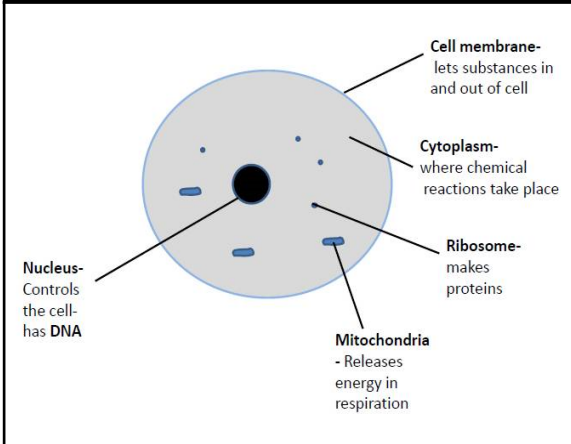


Science Knowledge Organiser

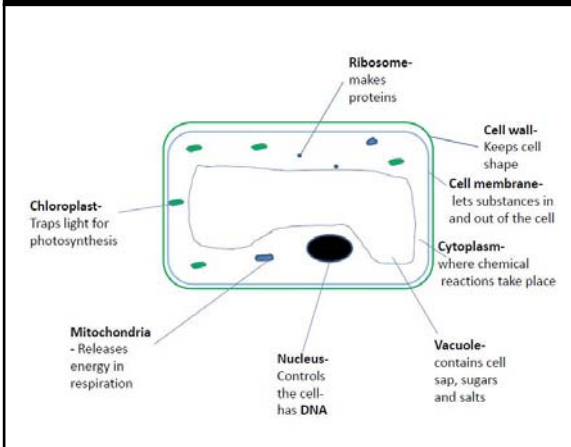
Y7 Organisms: Cells



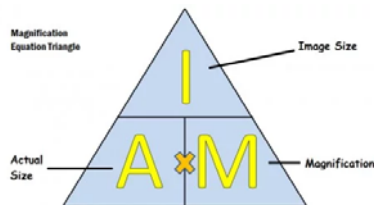
B. Animal Cell



C. Plant Cell



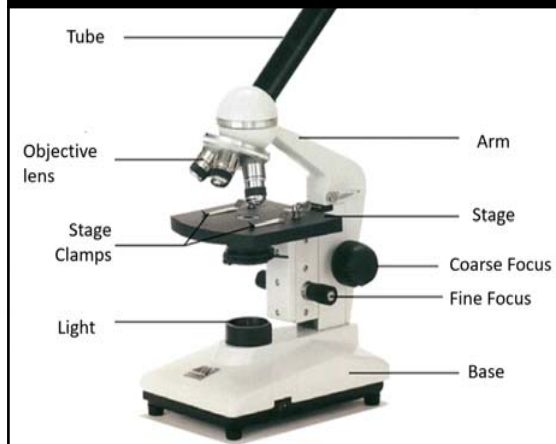
Magnification calculation



A. Key Terms:

1. Cell.	The smallest functional unit in an organism – the building block of life.
2. Cell membrane.	Cell organelle that controls which substances can move into and out of the cell.
2. Cell wall.	The plant cell organelle that surrounds the cell, providing support.
3. Chloroplasts.	The plant cell organelle where photosynthesis takes place.
4. Cytoplasm.	A 'jelly-like' substance found in cells, where all the chemical reactions take place.
6. Microscope.	An optical instrument used to magnify objects so that small details can be seen.
7. Mitochondria.	The cell organelle where respiration takes place.
8. Multicellular.	An organism that is made up of many cells.
9. Nucleus.	The cell organelle that controls the cell and contains genetic material.
10. Organ.	A group of tissues working together to perform a function.
11. Organism.	A living thing.
12. Organ system.	A group of organs working together to perform a function.
13. Structural adaptation	Special features to help cells carry out their functions.
14. Tissue.	A group of similar cells working together to perform a function.
15. Unicellular.	An organism that is made up of just one cell.
15. Vacuole.	The plant cell organelle that contains cell sap and helps to keep the cell firm.

D. Light microscope



E. Specialised cells

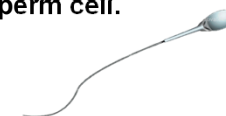
1. Nerve cell



2. Eg



3. Sperm cell.



4. Red blood cell.



5. Root hair cell.



6. Palisade cell.

