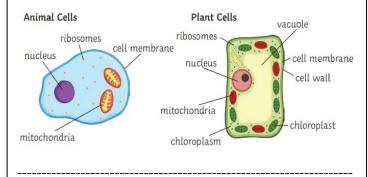
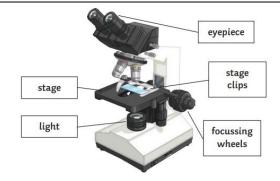
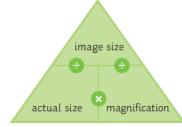
## Key Facts - 7A-Cells

- Cell the basic unit which living things are made from
- 2. Cell membrane controls what goes into and out of a cell
- 3. Cytoplasm substance inside a cell where the chemical reactions happen
- 4. Nucleus contains the DNA.
- 5. Mitochondria Site of aerobic respiration, which releases energy.
- 6. Chloroplast site of photosynthesis, which produces glucose. Contains green chlorophyll.
- 7. Cell wall helps to support the plant cell
- 8. Vacuole- stores nutrients in plant cells
- 9. Ribosomes-site of protein production.
- Animal cells contain: nucleus, cell membrane, cytoplasm, mitochondria and ribosomes
- 11. Plant cells contain the same as animal cells, plus: vacuole, cell wall, chloroplasts



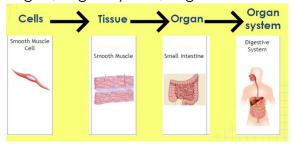


- 12. Carry the light microscope by the base and the arm.
- 13. Use the lowest objective lens first.
- 14. Place the slide you want to look at on the stage.
- 15. Look at the image using the eyepiece lens.
  Use the focusing wheels to focus the image.
- 16. Magnification = image size ÷ actual size



- 17. Humans are multicellular. We are made of lots of different cells.
- 18. Multicellular organisms need specialised organ systems to carry out a function.
- 19. Organ system- Collection of organs working together to do a very important function
- 20. Organ- A large part of a plant or animal that has a very important function. It is made from different tissues

- 21. Tissue- A group of the same cells all working together
- 22. Cell The basic unit which living things are made from
- 23. From smallest to largest: Cell, Tissue, Organ, Organ System, Organism



- 24. Some cells are specialised for a function (job). They are differentiated.
- 25. Sperm cells have a tail to swim to the egg. They have lots of mitochondria to release energy to swim.
- 26. Muscle cells have lots of mitochondria to release energy to move.
- 27. Nerve cells are long to carry electrical impulses around the body.
- 28. Red blood cells do not have a nucleus. They have more space to carry oxygen.
- 29. Ciliated cells have a large surface area to move mucus.
- 30. Root hair cells have a large surface area to absorb water.
- 31. Palisade cells have lots of chloroplasts for photosynthesis.