

Organisation of the organism

Cell structure

Plant cells only

Cell wall Chloroplasts Large vacuole

Plant and animal cells

Nucleus Cell membrane Mitochondria Ribosomes

Bacterial cell

Circular DNA Plasmids Cell wall

Specialised animal cells **Supplement**

Red blood cell: oxygen

Specialised plant cells **Supplement**

Root hair: absorption Palisade: photosynthesis

Levels: cell to organism

Tissue Organ Organ system Organism

Size of specimens

Magnification = image ÷ actual

No units

Measure in mm

Use a ruler

Actual size = image ÷ magnification

1 mm = 1000 μm **Supplement**

mm to μm : $\times 1000$ μm to mm: $\div 1000$