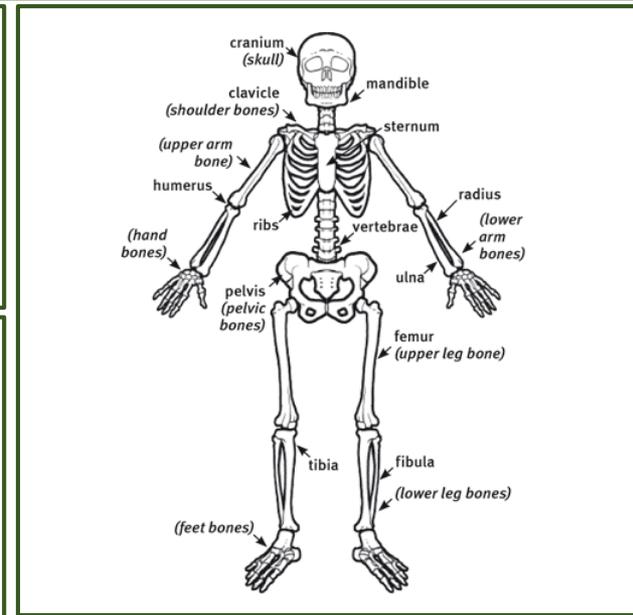


Keyword	Definition
<b>Cell</b>	Basic unit of life. Unicellular organisms only have one cell. Multicellular organisms have many cells.
<b>Cell Membrane</b>	Controls the movement of substances in and out of the cell.
<b>Cytoplasm</b>	Jelly-like substance where chemical reactions take place.
<b>Nucleus</b>	Carries genetic information and controls the cell.
<b>Mitochondria</b>	Where respirations takes place.
<b>Cell Wall</b>	Made of cellulose, provides support to the cell.
<b>Vacuole</b>	Contains cell sap.
<b>Chloroplasts</b>	Contains the green pigment chlorophyll, the site of photosynthesis.
<b>Tissue</b>	Something made from just one type of specialised cell.
<b>Organ</b>	Something made from different groups of specialised cells all working together.
<b>Organ System</b>	When a number of organs work together.
<b>Synovial Joint</b>	A freely moveable joint. Examples include the hip, shoulder, elbow and knee joints.

**Light Microscope:** A device which uses light and a series of lenses to produce a magnified image of an object.

**Magnification =** How much bigger a sample/object appears under the microscope than it is in real life.

**Total magnification =** Eyepiece lens x Objective lens



**Diffusion:** The movement of particles from an area of high concentration to an area of low concentration. Substances diffuse into and out of cells.

**Antagonistic Muscles:**

- Muscles work by getting shorter.
- Muscles can only pull and can't push.
- Muscles work in pairs.
- When you raise your forearm, the biceps contract and the triceps relax.
- When you lower your forearm, the biceps relax and the triceps contract.

**Further Reading:**  
<https://www.bbc.com/bitesize/guides/z9hyvcw/revision/2>

Red Blood Cell	Sperm Cell	Root Hair Cell	Palisade Cell	Nerve Cell	Egg Cell
Carries blood around the body. <b>Adaptations:</b> No nucleus, large surface area and biconcave shape.	Carries the male genes. <b>Adaptations:</b> Tail for swimming, mitochondria for energy, acrosome to break down the egg cell.	Take in water from the soil. <b>Adaptations:</b> Long & thin; large surface area for maximum water absorption. Thin cell walls.	Production of food for the plant. <b>Adaptations:</b> Tall and thin. Lots of chloroplasts to absorb sunlight for photosynthesis.	Carry signals around the body. <b>Adaptations:</b> Long axon. Myelin sheath.	Carries the female genes. <b>Adaptations:</b> Lots of mitochondria. Outer layer hardens once fertilised.