

1. Mitosis	
<b>Interphase</b>	Cell parts are made and DNA chromosomes are replicated.
<b>Mitosis</b>	When one cell divides into two genetically identical daughter cells.
<b>Prophase</b>	The membrane of the nucleus breaks down and spindle fibres start to form.
<b>Metaphase</b>	Spindle fibres fully form and chromosomes line up across the middle of the cell.
<b>Anaphase</b>	Chromosomes get pulled apart and move to each end of the cell.
<b>Telophase</b>	A new membrane forms around each set of chromosomes to form two nuclei.
<b>Cytokinesis</b>	The two new cells fully separate.
<b>Diploid cell</b>	Have two sets of chromosomes (23 pairs in humans).
<b>Asexual</b>	Type of reproduction with just one parent producing a clone of itself through mitosis.

2. Animal Growth	
<b>Growth</b>	Increase in size due to increased numbers of cells.
<b>Differentiation</b>	An unspecialised cell becomes specialised.
<b>Specialised cell</b>	A cell with special features designed for a specific job.

3. Plant Growth	
<b>Plant growth</b>	Cell division creates more cells, elongation makes these cells get bigger.
<b>Meristems</b>	Areas in the tips of roots and shoots where cell division and differentiation happens.

4. Stem Cells	
<b>Stem cell</b>	An unspecialised cell that can undergo cell division and differentiation to form specialised cells.
<b>Embryonic stem cell</b>	A stem cell that can become any kind of cell. Found in developing embryos.

5. The Nervous System	
<b>Nervous system</b>	Organ system made up of the CNS and nerves.
<b>Stimulus</b>	Anything your body is sensitive to
<b>Sense organ</b>	Contain receptor cells that detect stimuli (e.g. eyes, ears, skin).
<b>Neurone</b>	A nerve cell
<b>Impulse</b>	Electrical message carried by a neuron.
<b>Response</b>	The action that the nervous system makes happen.
<b>Sensory Neurone</b>	Nerve cell that carries impulses from sense organs to the CNS.
<b>Cell body</b>	The central part of a nerve cell containing its nucleus.
<b>Dendron and axon</b>	The long parts of a nerve cell carrying impulses towards the cell body (dendron) and away from it (axon)
<b>Dendrites</b>	Branches at the beginning of a dendron that connect to receptor cells or another neuron.
<b>Myelin sheath</b>	A fatty layer around the axon and dendron that insulates it.

6. Neurotransmission Speeds	
<b>Neuro-transmission</b>	The travelling of an impulse along a neuron and into another.
<b>Effector</b>	The body part that produces the response, often a muscle.
<b>Synapse</b>	Small gap between two neurons where the axon terminals of one meet the dendrites of another.
<b>Neuro-transmitter</b>	Chemicals released by axon terminals that diffuse across the synapse to trigger a new impulse the dendrite of another neuron.
<b>Relay neuron</b>	Nerve cell in the CNS that links sensory and motor neurones.
<b>Motor neuron</b>	Nerve cell that carries impulses from the CNS to effectors. Dendrites join onto cell body, long axon.
<b>Reflexes</b>	Automatic responses that happen very quickly without conscious thought to keep the body safe.

