Stem cell	An undifferentiated cell that can divide over and over to make many cells of different types
Metabolism	The sum of all reactions that occur in an organism
Anabolism	The synthesis of complex molecules from simpler molecules
Catabolism	The breakdown of complex molecules into simpler molecules
Homeostasis	Keeping conditions inside a cell within tolerable limits
Nutrition	Obtaining food, to provide energy and materials for growth

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Growth	An irreversible increase in size
Response	The ability to react to changes in the environment
Excretion	Getting rid of the waste products of metabolism
Reproduction	Producing offspring either sexually or asexually
Cholesterol	A component of animal cell membranes reducing membrane fluidity and permeability to some solutes
Facilitated Diffusion	The movement of ions/particles across a cell membrane down the concentration gradient with the aid of an integral protein

Active Transport	The movement of ions/particles across a cell membrane up the concentration gradient with the aid of an integral protein and ATP
Endocytosis	The process of bringing material into a cell by pinching off a small piece of plasma membrane forming a vesicle
Exocytosis	The process of releasing a material outside a cell by fusing a vesicle with the plasma membrane
Semi-conservative	The property of DNA after replication in which one of the strands is an original and the other a newly synthesized strand
Gene	A heritable factor that consists of a length of DNA and influences a specific characteristic
Allele	A specific form of a gene that differs from other alleles of that gene by only one or a few bases

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Genome	The whole of the genetic information of an organism
Mutation	A change in the base sequence of a gene
Plasmid	Small, circular pieces of extra DNA found in prokaryotes
Diploid	A nucleus having two chromosome of each type as in gametes
Haploid	A nucleus having one chromosome of each type as in somatic (body) cells
Karyogram	A micrograph showing the chromosomes of an organism in homologous pairs of decreasing length

Crossing over	The random exchange of parts of the chromatids of homologous chromosomes during Prophase I of meiosis
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Malnutrition	An outcome of the diet that can be caused by deficiency, imbalance or excess of nutrients
Ecology	The study of relationships between living organisms and between organisms and their environment
Population	A group of organisms of the same species who live in the same area at the same time
Ecosystem	A community and its abiotic environment
Cytoplasm	Interior of a prokaryotic cell, also the region between the nucleus and plasma membrane of eukaryotic cells
Rough Endoplasmic reticulum	

Lysosome	Digestive organelle where macromolecules are hydrolyzed
Carrier	An individual that has a recessive allele of a gene that does not have an effect on the phenotype
Sex Linked	Allele carried on the X chromosome
Test Cross	Testing a suspected heterozygote by crossing it with a known homozygous recessive
Phenotype	Outward expression of characteristic in organism
Genotype	Alleles possesed by an organism



Compounds containing carbon that are found in living organisms (except hydrogencarbonates, carbonates, and oxides of carbon)

Trophic level	A position in a food chain (ex. primary consumer)
Consumer	An organism that ingests other organic matter that is living or recently killed
Heart Rate	Number of contractions of the heart per minute
Ventilation Rate	Number of inhalations or exhalations per minute
Osmosis	The passive movement of water molecules, across a partially permeable membrane, from a region of lower solute concentration to a region of higher solute concentration
Pathogen	An organism or virus that causes a disease

Saprotrophs	An organism that lives on or in dead organic matter, secreting digestive enzymes into it and absorbing the products of digestion
Detritivores	An organism that ingests dead organic matter
Nucleus	

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Cell Respiration	The controlled release of energy from organic compounds in cells to form ATP
Active Site	Specific portion of an enzyme that binds the substrate
Homologous Chromosomes	A pair of chromosomes of the same length, centromere position, and staining pattern that possess genes for the same characters at corresponding loci. One is inherited from the organism's father, the other from the mother
Clone	A group of organisms of identical genotype OR a group of cells descended from a single parent cell
Species	Group of organisms that can interbreed and produce fertile offspring
Nucleoid	Where DNA is concentrated

Golgi Apparatus	Packages and modifies molecules, especially for secretion or storage
Mitochondrion	Where cellular respiration occurs and most ATP is generated
Plasma Membrane	Encloses cytoplasm. Selective barrier that allows passage of oxygen, nutrients, and wastes
Cell Wall	Maintains cell shape, protects cell from mechanical damage and excessive water uptake
Ribosomes	Completes protein synthesis
Flagella	Locomotion organelles of some bacteria

Pili	Attachment structure on the surface of some prokaryotes
Community	A group of populations living and interacting with each other in an area
Heterotroph	An organism that obtains organic molecules from other organisms
Autotroph	An organism that synthesizes its organic molecules from simple inorganic substances