

Biology Vocabulary

Nature of Life, Science of Biology

Science
Observation
Data
Inference
Hypothesis
Spontaneous generation
Controlled experiment
Manipulated variable (independent variable)
Responding variable (dependent variable)
Theory
Biology
Cell
Sexual reproduction
Asexual reproduction
Metabolism
Stimulus
Homeostasis
Evolution
Metric system
Microscope
Compound light microscope
Electron microscope
Cell culture
Cell fractionation

Nature of Life, Chemistry of Life

Atom
Nucleus
Electron
Element
Isotope
Compound
Ionic bond
Ion
Covalent bond
Molecule
Van der waal's forces
Cohesion
Adhesion
Mixture
Solution
Solute
Solvent
Suspension
pH scale
acid
base
buffer
monomer
polymer
carbohydrate
monosaccharide
polysaccharide
lipid
nucleic acid
nucleotide
ribonucleic acid (RNA)

deoxyribonucleic acid (DNA)
protein
chemical reaction
reactant
product
activation energy
catalyst
enzyme
substrate

Ecology (The Biosphere)

Ecology
Biosphere
Species
Population
Community
Ecosystem
Biome
Autotroph
Producer
Photosynthesis
Chemosynthesis
Heterotroph
Consumer
Herbivore
Carnivore
Omnivore
Detrivore
Food chain
Decomposer
Food web
Trophic level
Ecological pyramid
Biomass
Biogeochemical cycle
Evaporation
Transpiration
Nutrient
Nitrogen fixation
Denitrogen fixation
Primary productivity
Limiting nutrient
Algae bloom

Ecology (Ecosystems and Communities)

Weather
Climate
Greenhouse effect
Polar zone
Temperate zone
Tropical zone
Biotic factor
Abiotic factor
Habitat
Niche
Resource
Competitive exclusion principle
Predation
Symbiosis
Mutualism
Commensalisms

Parasitism
Ecological succession
Primary succession
Pioneer species
Secondary succession
Biome
Tolerance
Microclimate
Canopy
Understory
Deciduous
Coniferous
Humus
Taiga
Permafrost
Plankton
Phytoplankton
Zooplankton
Wetland
Estuary
Detritus
Salt marsh
Mango grove swamp
Photic zone
Aphotic zone
Zonation
Coastal ocean
Kelp forest
Coral reef
Benthos

Ecology (Populations)

Population density
Immigration
Emigration
Exponential growth
Logistic growth
Carrying capacity
Limiting factor
Density dependent limiting factor
Predator prey relationship
Density independent limiting factor
Demography
Demographic transition
Age structure diagram

Ecology (Humans and the Biosphere)

Agriculture
Monoculture
Green revolution
Renewable resource
Nonrenewable resource
Sustainable development
Soil erosion
Desertification
Deforestation
Aquaculture
Smog
Pollutant
Acid rain
Biodiversity

Ecosystem diversity
Species diversity
Genetic diversity
Extinction
Endangered species
Habitat fragmentation
Biological magnification
Invasive species
Conservation
Ozone layer
Global warming

Cells (Structure and Function)

Cells
Cell theory
Nucleus
Eukaryote
Prokaryote
Organelle
Cytoplasm
Nuclear envelope
Chromatin
Chromosome
Nucleolus
Ribosome
Endoplasmic reticulum
Golgi apparatus
Lysosome
Vacuole
Mitochondrion
Chloroplast
Cytoskeleton
Centriole
Cell membrane
Cell wall
Lipid bilayer
Concentration
Diffusion
Equilibrium
Osmosis
Isotonic
Hypertonic
Hypotonic
Facilitated diffusion
Active transport
Endocytosis and exocytosis
Phagocytosis and Pinocytosis
Cell specialization
Tissue, organ and organ system

Cells (Photosynthesis)

Autotroph
Heterotroph
Adenosine triphosphate (ATP)
Photosynthesis
Pigment
Chlorophyll
Thylakoid
Photosystem