

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