

BIOLOGY EOC REFERENCE SHEET - Part 2

Develop an understanding of the evolution and diversity of life.

- Classification of Organisms according to Evolutionary Relationships, Historical Development and Changing Nature of Classification Systems, Eukaryotic vs. Prokaryotic Organisms, Eukaryotic Kingdoms, Dichotomous Keys
- Processes by which Organisms or Representative Groups accomplish Essential Life Functions
- Adaptations affecting Survival and Reproduction, Structural Adaptations in Plants and Animals, Disease-Causing Viruses and Microorganisms, Co-Evolution
- Interactive Role of Internal / External Factors in Health and Disease, Genetics, Immune Response, Nutrition, Parasites, Toxins
- Patterns of Animal Behavior as Adaptations to the Environment, Innate / Learned Behavior

CLASSIFICATION:

- process in understanding how organisms are related and how they are different
- taxonomy** – branch of biology that studies grouping and naming of organisms
- history of classification systems
 - 4th Century, Aristotle proposed two groups (plants and animals) and used common names for identification, based on "blood" and "bloodless"
 - early 1700s, Carolus Linnaeus developed a system based on physical characteristics
 - two kingdoms (plants and animals)
 - developed "genus" and "species"
 - designed system of naming called **binomial nomenclature** ("two names"), which gave each organism two names, a genus, and a species, Genus always capitalized, both should be underlined or italicized
- **Six kingdoms:** *Archaeobacteria*, *Eubacteria*, *Protists*, *Fungi*, *Plantae*, and *Animalia*
- A **dichotomous key** is a tool used to identify organisms by using pairs of contrasting characteristics
- basis of current classification: phylogeny, DNA / biochemical analysis, embryology, morphology, Phylogenetic trees

LEVELS OF CLASSIFICATION:

- Kingdom
- Phylum
- Class
- Order
- Family
- Genus
- Species

CLASSIFICATION OF HUMANS:

Kingdom *Animalia* (multicellular organisms that eat food)
 Phylum *Chordata* (dorsal hollow nerve cord, notochord, pharyngeal slits)
 Class *Mammalia* (hair, mammary glands, endothermy, four-chambered heart)
 Order *Primates* (nails, clavicle, orbits encircled with bone, enlarged cerebrum, opposable digits)
 Family *Hominidae* (bipedal – walk erect on two feet, advanced tool use)
 Genus *Homo* ("human" like)
 Species *Homo sapiens*

COMPARISON OF EUKARYOTE TO PROKARYOTE:

Prokaryote – has nuclear material in the center of the cell, but is not enclosed by a nuclear membrane; no membrane bound organelles; examples: bacteria and blue-green algae

Eukaryote – contain a clearly defined nucleus enclosed by a nuclear membrane and membrane bound organelles; examples: plants, animals, fungi, and protists

COMPARISON OF KINGDOM CHARACTERISTICS

Domain: BACTERIA	Domain: ARCHAEA	Domain: PROTISTA	Domain: FUNGI	Domain: EUKARYA	Domain: PLANTAE	Domain: ANIMALIA
EUBACTERIA	ARCHAEA	PROTISTA	FUNGI	EUKARYA	PLANTAE	ANIMALIA
Bacteria Prokaryote Unicellular, colonial Aerobic / anaerobic Decomposer Heterotrophic Photosynthetic (some) Chemosynthetic (some) Pathogenic Medicinal Classified by shape Binary fission Vaccines, antibiotics Ex: streptococcus	Ancient bacteria Unicellular Prokaryote Less widespread Protective cell wall Methanogens - use H ₂ and CO ₂ to produce methane (CH ₄) & energy Extreme Environments - Thermophiles - heat - Halophiles - salt Ex: methanococcus	Protists Eukaryote Unicellular Multicellular Aerobic Pathogenic / parasitic Animal-like (protozoa) Plant-like (algae) Medicinal, food source Mobile Ex: amoeba	Eukaryote Multicellular Aerobic Decomposer Lack chlorophyll Pathogenic Saprophytic / parasitic Medicinal, food source Heterotrophic Sexual / asexual Alternation of generations Often symbiotic with algae Ex: mushroom	Eukaryote Multicellular Aerobic Producer Photosynthesis Cell wall (cellulose) Vascular system, seeds Poisonous Medicinal, food source Alternation of generations Roots, stems, leaves Pollination/fertilization Germination Ex: oak	Eukaryote Multicellular Aerobic Consumer Cellular respiration Invertebrates Vertebrates Symmetry Ex: Homo sapiens	

Note: Current classification systems reveal six kingdoms, where Monerans are divided into *Archaeobacteria* (ancient bacteria, anaerobic nature) and *Eubacteria* (true bacteria, aerobic nature).

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