

taxonomy

Definition – the description, identification, naming, and classification of organisms

Characteristics – all organisms are classified into three large groups called domains, the three domains are divided into six kingdoms

Examples – categorizing

Picture -

Organism

Definition – individual living system that is capable of reproduction, growth and response to stimulus

Characteristics – plants, animals, single-cells are all organisms

Examples – cow

Picture -

Cell

Definition – The basic structural and functional unit of all organisms

Characteristics – basic unit of life, building blocks of life

Examples – one brick

Picture -

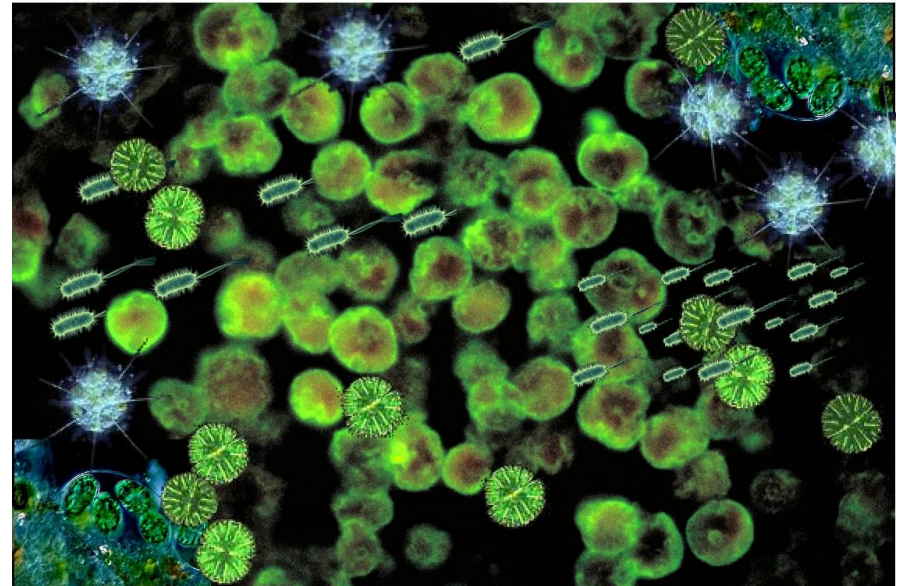
Unicellular

Definition –An organism consisting of one cell

Characteristics – one cell carries on all life functions

Examples – bacteria

Picture -



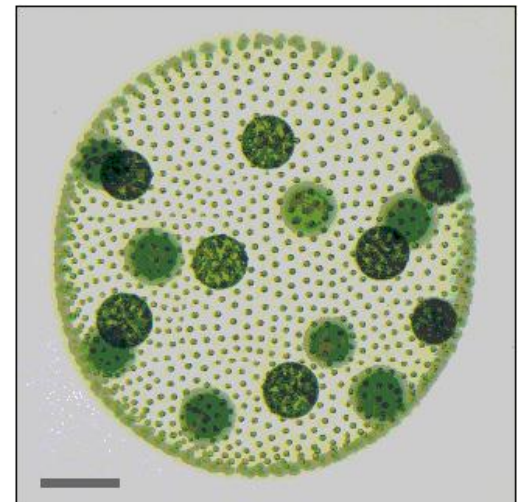
Multicellular

Definition –having or consisting of many cells

Characteristics – cells have specific jobs, such as muscle cells or brain cells, all cells work together to make up organism

Examples – cat

Picture -



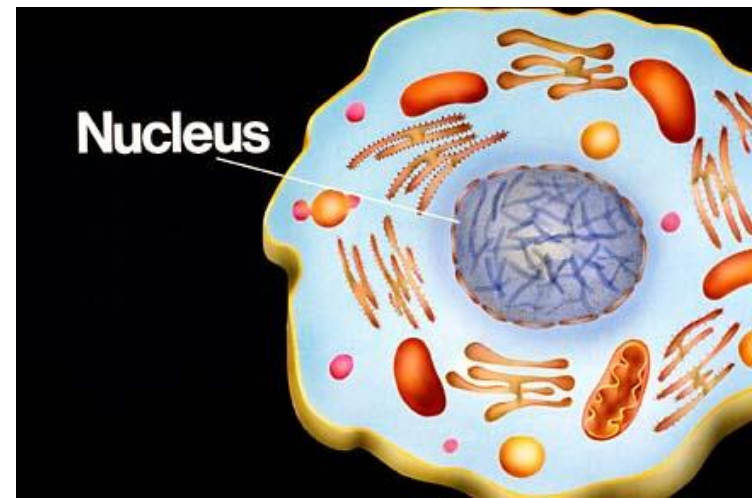
Nucleus

Definition – the brains of the cell; carries the codes that control all cell activities

Characteristics – The code is DNA

Examples – Brains

Picture -



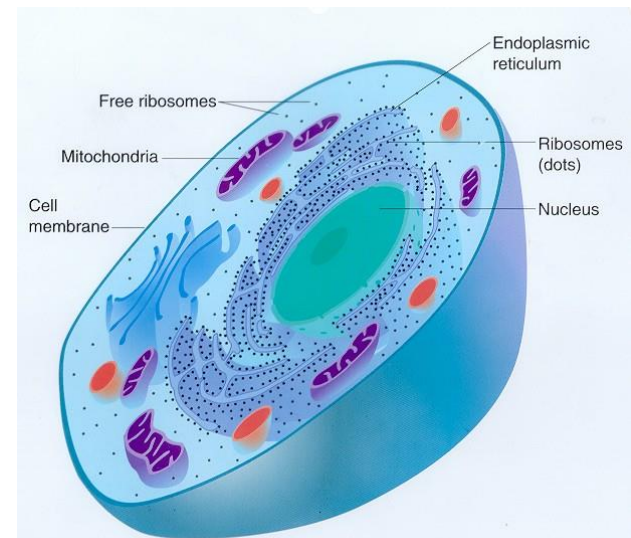
Eukaryote

Definition – A single-celled or multicellular organism whose cells contain a distinct membrane-bound nucleus.

Characteristics – plants and animals are eukaryotes; these cells are much larger than prokaryotes

Examples – human cells

Picture -



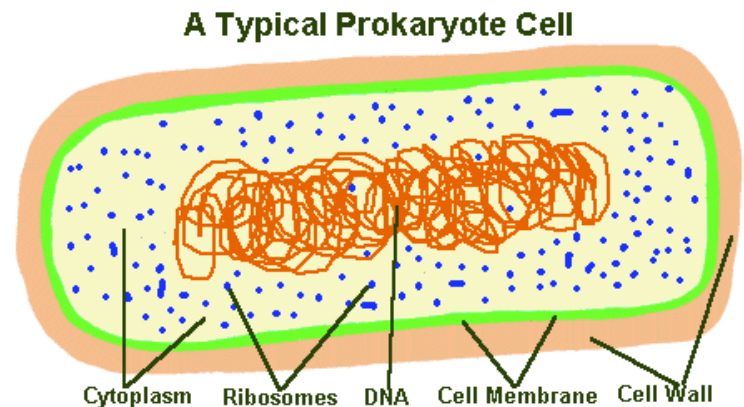
Prokaryote

Definition – An organism characterized by the absence of a membrane-bound nucleus

Characteristics – most are unicellular

Examples – bacteria

Picture -



Autotrophic

Definition – An organism that manufactures its own food from inorganic substances, such as carbon dioxide

Characteristics – organisms that can make their own food

Examples – plants

Picture -

Heterotrophic

Definition – An organism that cannot make its own food and is dependent on complex organic substances for nutrition

Characteristics – organism that catches and eats food

Examples – animals

Picture -

Reproduction

Definition – process by which a plant or animal produces one or more new individuals similar to itself

Characteristics – fundamental feature of all life, carries code from one generation to the next

Two types, sexual and asexual

Examples – copy

Picture -



Domain

Definition – The highest classification of organisms; consists of Archaea, Eubacteria and Eukarya; that rank above a kingdom in taxonomic systems

Characteristics – Evans Elementary is the domain and all of the grade levels are the kingdoms

Examples – Allen ISD

Picture -

Kingdom

Definition – The second highest level of taxonomic classification of organisms

Characteristics – 6 kingdoms: Animalia, Plantae, Fungi, Protista, eubacteria, archaeobacteria

A domain is like Evans Elementary and the kingdoms are the grade levels

Examples – Evans Elementary

Picture -

Sexual Reproduction

Definition - Reproduction involving two sets of genetic material (two parents)

Characteristics – genetic material comes from Mom and Dad and a unique individual is the result of this combination

Example - puppies

Asexual Reproduction

Definition - Type of reproduction requiring only one set of genetic material (1 parent)

Characteristics – only one parent gives genetic material to the offspring so the new individual is an EXACT copy of the parent

Example – strawberry plant runner

Picture -

