

Linnaeus created a system for creating scientific names. Each species was given a two part name. The first part is the genus name, the second part is the species name. Scientists around the world use this system for naming organisms. The rules for writing scientific names include the following:

- Capitalize the first letter of the genus name.
- Do not capitalize the species name
- Both names must be underlined or *italicized*
- Example: human- *Homo sapiens*

Characteristics of the Six Kingdoms

	Eubacteria	Archaeobacteria	Protista	Fungus	Plant	Animal
Cell Type	prokaryotic	prokaryotic	eukaryotic	eukaryotic	eukaryotic	eukaryotic
Number of Cells	unicellular	unicellular	most unicellular	most multicellular	multicellular	multicellular
Level of Organization	cell	cell	most cell	most tissue	systems	systems
Cell Wall	Yes	Yes	pectin or none (green algae: cellulose)	chitin	cellulose	none
Mode of Nutrition	Auto/heterotroph	Auto/Heterotroph	Auto/Heterotroph	Heterotroph	Autotroph	Heterotroph
Reproduction	asexual	asexual	sexual/asexual	sexual/asexual	sexual/asexual	sexual/asexual
Symbiotic Relationship	fix nitrogen many pathogenic aid in human digestion	aid in digestion	many pathogenic (malaria, African sleeping sickness, amoebic dysentery) cellulose digestion	many pathogenic (athlete's foot, yeast infection, ringworm) lichen	mistletoe	parasitic worms, barnacles, clownfish
Ecological Importance	fix nitrogen decomposers	decomposers	algae major aquatic oxygen & food producers	decomposers	major oxygen & food source (photosynthesis)	human impact on environment
Examples	<i>Escherichia coli</i> <i>Streptococcus</i>	methanobacteria	algae, diatoms, amoebas,	lichen, yeast, mushrooms	trees flowers grass	sponges ↓ mammals