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## Classifying Life's Diversity - lesson 1

Why is this important?

- doctors need to correctly identify the infected organism before they can treat it
- edible and medicinal plants must be correctly identified before you use them
- standard system allows scientists to work in different countries

3 common concepts for defining species:

- 1. Biological Species Concept: behaviour and ability
  - advantage: widely used by scientists
- disadvantage: not applied for all cases; if they're physically separated (live far away)
- 2. Morphological Species Concept: appearance, structure/form of an organism, change over time
  - advantage: widely used(plants), easy
- how much is too different
- 3. Phylogenetic Species Concept: evolutionary, DNA evidence

Binomial nomenclature system: two part naming by Geor - capital Genus 1st word - lower case species 2rdwort - underline of italice Hierarchical Classific from Roseneoide

Linnaean System of Classification:

- each level is a rank, classification of organism at each rank is the taxon
- 3 domains (Bacteria, Archaea and Eukarya) 6 kingdoms (Bacteris, Archaeabacteria, Protista, Plantae, Fungi, and Animalia)
- · Domain Kingdom Phylum Class Order Family Genes Species
- · Did King Philip Come Over For Good Spaghetti

Importance of Classification :

- discover new drugs
- trace diseases and find treatments

Kingdoms and Domains - lesson 2

6 kindgoms - Bacteria, Archaebacteria, Protista, Plantae, Fungi, and Animalia

- shape, structure of virus
- type of disease
- genetic material (DNA, RNA)
- reproduction method

Lytic Cycle: immediate

injects into host

makes copies of itself

new virus assembled

release new virus

- recognize and fight future methods esson 5 Cocci - sof Spirilli - spiral Bacilli - rod Cocci - spherical

Staph - group/ cluster Strep - chain

Aggregation - material clump togethor

Aerobic - live in air

Anaerobic - live without air

Mesophiles - live in moderate conditions

Extermophiles - live in extreme habitat conditions

Plasmids - small, circular strand of cell of chromosomal DNA

Hermophiles - live in hot areas (hot springs)

Halophiles - live in salty areas (salty lakes)