Unit 5: Classification

Essential guestions:

- What are the current taxonomic categories used in biology?
- How are organisms on Earth grouped?
- What do phylogenetic trees tell us?
- How do viruses replicate?
- What processes in bacteria allow for genetic diversity and allow bacteria to evolve?
- Describe the unique characteristics of the Kingdom Fungi.

Key vocabulary:

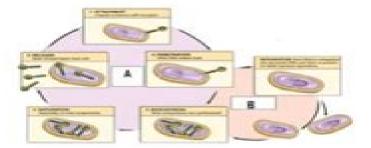
- Taxonomy
- Phylogenetic tree
- Archaea
- Eubacteria
- Binomial nomenclature
- Virus

- Lytic cycle
- Lysogenic cycle
- Conjugation
- Transformation
- Fungi
- Mycelium

- Hyphae
- Basidospore
 - Ascospore
- Saprotrophy
- chitim

Practice:

- 1. What is a group of organisms at any particular level in a classification system called?
- 2. What are the rules for writing the scientific name for an organism using binomial nomenclature?
- 3. Why are viruses are not included in the biological classification system?
- 4. Write the levels of taxonomic classification from most inclusive to least inclusive.
- 5. What is being shown on the following diagram? What does A represent? What does B represent?



- 6. What kingdoms do biologists currently recognize?
- Describe the structure of a fungus.
- 8. How can bacteria pick up free pieces of DNA from the environment and incorporate them into their own genome?

General Biology Second Semester Study Guide Answers

Robert E. Yager

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