

Unit 5: Classification

Essential questions:

- 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 | • Lytic cycle | • Hyphae |
| • Phylogenetic tree | • Lysogenic cycle | • Basidiospore |
| • Archaea | • Conjugation | • Ascospore |
| • Eubacteria | • Transformation | • Saprotrophy |
| • Binomial nomenclature | • Fungi | • chitin |
| • Virus | • Mycelium | |

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 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?
7. 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?

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