

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?

General Biology Second Semester Study Guide Answers

DJ Losen



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Enjoying the Track of Term: An Emotional Symphony within **General Biology Second Semester Study Guide Answers**

In a world used by screens and the ceaseless chatter of instant interaction, the melodic splendor and emotional symphony produced by the written word often diminish in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **General Biology Second Semester Study Guide Answers** an enchanting fictional prize filled with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this fascinating masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths with this touching analysis, we shall discover the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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