

The Tree of Life

Study Guide

Answer Key

SECTION 1. THE LINNAEAN SYSTEM OF CLASSIFICATION

1. organisms or species
2. physical similarities
3. taxa
4. organisms or species
5. binomial nomenclature
6. a scientific name or two-part Latin name
7. In a hierarchy, each level is nested, or included, in the level above it.
8. From kingdom to species, the taxa become more and more specific, broad to specific. **Seven taxa:** a. kingdom, b. phylum, c. class, d. order, e. family, f. genus, g. species
9. The technology at the time did not allow Linnaeus to examine organisms at the molecular or genetic level.
10. Unrelated species can evolve similar traits through convergent evolution.
11. These types of similarities are more likely the result of species sharing a common ancestor than are physical similarities.
12. naming, classifying
13. Latin
14. genus, species

SECTION 2. CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

1. the evolutionary history for a group of species
2. in a branching-tree diagram, such as a cladogram
3. to place species on a branching-tree diagram in the order in which they descended from a common ancestor
4. taxon being classified
5. clade
6. node
7. derived characters
8. a group of organisms that shares a common ancestor
9. Scientists must determine which derived characters are shared by which groups of organisms; the more derived characters a

group of organisms has, the later it descended from the common ancestor.

10. A node is a place where a branch splits. It represents the most common ancestor shared by a clade.
11. DNA sequences/genes, amino acid sequences/proteins, hormones, etc.
12. As more research is done and the evolutionary histories of different species become better understood, evolutionary trees are rearranged to reflect the most current scientific understanding.
13. The species are very closely related; they share a relatively recent common ancestor.
14. A phylogeny shows the origins for a group, or "clade," of species.
15. Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
16. derived

SECTION 4. DOMAINS AND KINGDOMS

1. Since it reflects the most current understanding of how living things are related, new discoveries can change the way living things are classified.
2. Three hundred years ago, only two kingdoms were recognized. Now, a six-kingdom system is most widely accepted.
3. His research revealed two genetically different groups of prokaryotes, which justified splitting kingdom Monera into two kingdoms. The genetic and cellular differences were so great, that these two kingdoms were eventually placed into different domains in the current three-domain system.

Timeline:

1753: Linnaeus introduced his two-kingdom system which included Plantae and Animalia, 1866: Kingdom Protista introduced by Haeckel, 1938: Kingdom Monera introduced by Copeland, 1959:

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Daniel F McAuley



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Table of Contents 700 Answer Key Study Guide 133849

1. Understanding the eBook 700 Answer Key Study Guide 133849
 - The Rise of Digital Reading 700 Answer Key Study Guide 133849
 - Advantages of eBooks Over Traditional Books
2. Identifying 700 Answer Key Study Guide 133849
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 700 Answer Key Study Guide 133849
 - User-Friendly Interface
4. Exploring eBook Recommendations from 700 Answer Key Study Guide 133849
 - Personalized Recommendations
 - 700 Answer Key Study Guide 133849 User Reviews and Ratings
 - 700 Answer Key Study Guide 133849 and Bestseller Lists
5. Accessing 700 Answer Key Study Guide 133849 Free and Paid eBooks
 - 700 Answer Key Study Guide 133849 Public Domain eBooks
 - 700 Answer Key Study Guide 133849 eBook Subscription Services
 - 700 Answer Key Study Guide 133849 Budget-Friendly Options
6. Navigating 700 Answer Key Study Guide 133849 eBook Formats

- ePub, PDF, MOBI, and More
 - 700 Answer Key Study Guide 133849 Compatibility with Devices
 - 700 Answer Key Study Guide 133849 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 700 Answer Key Study Guide 133849
 - Highlighting and Note-Taking 700 Answer Key Study Guide 133849
 - Interactive Elements 700 Answer Key Study Guide 133849
 8. Staying Engaged with 700 Answer Key Study Guide 133849
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 700 Answer Key Study Guide 133849
 9. Balancing eBooks and Physical Books 700 Answer Key Study Guide 133849
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 700 Answer Key Study Guide 133849
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 700 Answer Key Study Guide 133849
 - Setting Reading Goals 700 Answer Key Study Guide 133849
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 700 Answer Key Study Guide 133849
 - Fact-Checking eBook Content of 700 Answer Key Study Guide 133849
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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