

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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Table of Contents Active Guide Answer Key

1. Understanding the eBook Active Guide Answer Key
 - The Rise of Digital Reading Active Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Active Guide Answer Key
 - 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 Active Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Active Guide Answer Key
 - Personalized Recommendations

- Active Guide Answer Key User Reviews and Ratings
- Active Guide Answer Key and Bestseller Lists
- 5. Accessing Active Guide Answer Key Free and Paid eBooks
 - Active Guide Answer Key Public Domain eBooks
 - Active Guide Answer Key eBook Subscription Services
 - Active Guide Answer Key Budget-Friendly Options
- 6. Navigating Active Guide Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Active Guide Answer Key Compatibility with Devices
 - Active Guide Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Active Guide Answer Key
 - Highlighting and Note-Taking Active Guide Answer Key
 - Interactive Elements Active Guide Answer Key
- 8. Staying Engaged with Active Guide Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Active Guide Answer Key
- 9. Balancing eBooks and Physical Books Active Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Active Guide Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Active Guide Answer Key
 - Setting Reading Goals Active Guide Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Active Guide Answer Key
 - Fact-Checking eBook Content of Active Guide Answer Key

- 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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