

Modern Phylogenetic Taxonomy Answer Key

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Section 18-2 Modern Phylogenetic Taxonomy 24. Name 6 things used by modern taxonomists to classify organisms. 25. Classification of an organism should reflect its _____ or _____ history. 26. What is systematics? 27. Name a tool used by systematic taxonomists. 28. What is a phylogenetic tree? 29. Draw a phylogenetic tree showing the possible ...

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The answer is probably "both." ... into species is perhaps the most important role of taxonomy in modern paleoanthropology. ... drawn so as to encompass ongoing taxonomic and phylogenetic debates ...

Chapter 18: Classification, 18.1-18.3 Flashcards | Quizlet

Modern taxonomy: phylogeny, phylogenetic tree, reading a phylogenetic tree, practice questions. Modern taxonomy is based on: structural similarity, cellular organization, evolutionary relationships, biochemical similarities, genetic similarities, embryological similarities. Homologous, analogous, and vestigial structures: Definitions and examples.

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[Taxonomy and the tree of life. Species. Biodiversity and natural selection. Genetic variation, gene flow, and new species. Discovering the tree of life. ...](#)

[Understanding and building phylogenetic trees. How do we know which kinds of dinosaurs were most closely related? Phylogeny review. This is the currently selected item. Practice: Phylogeny ...](#)

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Cladistics is now accepted as the best method available for phylogenetic analysis, for it provides an explicit and testable hypothesis of organismal relationships. The basic idea behind cladistics is that members of a group share a common evolutionary history, and are "closely related," more so to members of the same group than to other organisms.

[Phylogenetic tree - Wikipedia](#)

Monophyletic groups (clades) An important goal of modern systematics is to apply scientific names only to groups of species that are monophyletic (from the Greek monos = one or single, and phylon = kind or tribe). A monophyletic group of species shares a single common ancestor and also includes all of the descendants of that common ancestor. On a phylogenetic tree, a monophyletic group includes a node and all of the descendants of that node, represented by both nodes and terminal taxa.

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In biology, phylogenetics / ˈf a l o d n t k s, - l - / (Greek: φυτόν, φυλή, phylé, phylon = tribe, clan, race + γενετικός = genetíkós = origin, source, birth) is a part of systematics that addresses the inference of the evolutionary history and relationships among or within groups of organisms (e.g. species, or more inclusive taxa).

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[Modern Systematics Answer Key](#)

A paleontologist studying two modern species finds a 7-million-year-old fossil organism with a morphology similar to the modern

species and concluded that it is an ancestor of both. A molecular biologist studying the amino acid sequence of a particular protein in both modern species concludes that the two species last shared a common ancestor 12.5 million years ago.

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A phylogenetic tree or evolutionary tree is a branching diagram or "tree" showing the evolutionary relationships among various biological species or other entities—their phylogeny (/ ˈ f a l d n i /)—based upon similarities and differences in their physical or genetic characteristics. All life on Earth is part of a single phylogenetic tree, indicating common ancestry.

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Question: Taxonomy Activity Key: Taxa Tomato Binomial Nomenclature Carolus Linnaeus Phylogenetic Domain Morphology Homologous Molecular Analogous Eukarya Archaea Animalia Protista Plantae Fungi Eukaryote Prokaryote Algae Protozoa Heterotrophic _____ Tree Or Tree Of Life Is A Diagram That Represents Evolutionary Relationships Among Organisms. Hominin Taxonomy and Phylogeny: What's In A Name? | Learn ...

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Taxonomy is a branch of biology that concerns the naming and classifying organisms based on their similarities and dissimilarities in their characteristics. Phylogeny is the branch of science which concerns the evolutionary relationship of a species or a group of species with a common ancestor. Thus, the key difference between taxonomy and phylogeny is that taxonomy involves naming and classifying organisms while phylogeny involves the evolution of the species or groups of species.

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