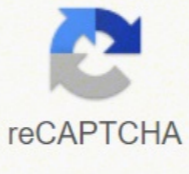




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# Making cladogram worksheet answer key biology answer keys pdf

Match the letter to its character. It is a diagram that depicts evolutionary relationships among groups. \_\_\_A\_\_\_ Segmented Body 4. For the animals on the table, indicate whether the characteristic is present or not. Sometimes a cladogram is called a phylogenetic tree (though technically, there are minor differences between the two). In the past, biologists would group organisms based solely on their physical appearance. Original Document: Cladogram Analysis What is a cladogram? \_\_\_D\_\_\_ Crushing mouthparts 7. Based on that chart, create a cladogram like the one pictured above. \_\_\_G\_\_\_ Double set of wings 5. \_\_\_H\_\_\_ Curly Antennae PART II - Create Your Own Cladogram To make a cladogram, you must first look at the animals you are studying and establish characteristics that they share and ones that are unique to each group. Today, with the advances in genetics and biochemistry, biologists can look more closely at individuals to discover their pattern of evolution, and group them accordingly - this strategy is called EVOLUTIONARY CLASSIFICATION CLADISTICS is form of analysis that looks at features of organisms that are considered "innovations", or newer features that serve some kind of purpose. \_\_\_F\_\_\_ Wings 2. \_\_\_B\_\_\_ Legs 8. \_\_\_C\_\_\_ 6 Legs 3. (Think about what the word "innovation" means in regular language.) These characteristics appear in later organisms but not earlier ones and are called DERIVED CHARACTERS. Cells Backbone Legs Hair Opposable Thumbs Slug Y Catfish Y Y Frog Y Y Y Tiger Y Y Y Human Y Y Y Y DRAWING OF YOUR CLADOGRAM Original Document: Cladogram Analysis What is a cladogram? It is based on PHYLOGENY, which is the study of evolutionary relationships. Note: this cladogram was created for simplicity and understanding, it does not represent the established phylogeny for insects and their relatives. Cells Backbone Legs Hair Opposable Thumbs Slug Y Catfish Y Y Frog Y Y Y Tiger Y Y Y Human Y Y Y Y DRAWING OF YOUR CLADOGRAM 1. PART I - Analyze the Cladogram in the example cladogram, each letter of the diagram points to a derivative trait, or something different (or most recent) of what was seen in previous groups. \_\_\_E\_\_\_ CER1 (abdominals APPENDES) 6. 6.



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