

# How To Make A Cladogram Worksheet Answer Key

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### How To Make A Cladogram

#### **How to Make a Cladogram - Boston University**

The student will learn how a cladogram illustrates an evolutionary hypothesis and makes predictions about evolutionary events (ie the scientific method) 4 The student will learn how cladograms depict relationships between taxa, and represent a "family tree" of life 5 The student will learn how to construct a cladogram from

#### **How to Build a Cladogram. - SawyerScience**

There are two steps that will help you build a cladogram Step One "The Chart": 1 First, you need to make a "characteristics chart" the helps you analyze which characteristics each species has Fill in a "x" for yes it has the trait and "o" for "no" for each of the organisms below 2

#### **MAKING CLADOGRAMS: Background and Procedures ...**

The resulting cladogram should look something like the one shown below (with or without the vertical "TIME" axis and horizontal "# OF SHARED CHARACTERISTICS" You can use this to make an overhead for subsequent class discussion LAMPREY HUMAN BULL FROG SNAPPING TURTLE KANGAROO RHESUS MONKEY SET 7 SET 6 SET 5 SET 4 SET 3 SET 2 SET 1

#### **How to Make a Cladogram - Loudoun County Public Schools**

How to Make a Cladogram Objectives: The student will learn how a cladogram illustrates an evolutionary hypothesis and makes predictions about evolutionary events (ie the scientific method) The student will learn how cladograms depict relationships between taxa, and represent a "family tree" of life

#### **Why do we make cladograms?**

morphology Cladograms can also provide information on fossil taxa Once the evolutionary relationships of your known taxa are established, you can make predictions about what other fossil taxa may be missing and what characters they should have Making a data matrix How does a cladist make a

cladogram? First you pick your taxa of interest (called

### **CLADOGRAM - PBS**

The cladogram diagram below shows the relationship of selected animals based on their shared anatomical features For example, out of seven key traits, all of these animals have a dorsal nerve cord, but only humans, monkeys and kangaroos have mammary glands

### **Creating Cladograms Based on the ENSI/SENSI Lesson ...**

Creating Cladograms Based on the ENSI/SENSI Lesson "Making Cladograms" Objective: You will be given a group of organisms and their distinguishing characteristics Using this information, construct a cladogram Using your cladogram, you should be able to interpret the evolutionary relationships of members of the group Procedure:

### **Cladistics (reading and making of cladograms)**

Cladistics (reading and making of cladograms) Definitions Systematics - The branch of biological sciences concerned with classifying organisms Taxon (pl: taxa) - Any unit of biological diversity (egAnimalia, Reptilia, Gorilla gorilla) Taxonomy - The practice of naming organisms Phylogenetic systematics - Classification of organisms based on their evolutionary relationships

### **Cladograms and Genetics - Adaogu'sBioPage**

Cladograms and Genetics 1 Find the human, rhesus monkey, kangaroo, snapping turtle, bullfrog, and tuna on the "Amino the cladogram below not a major protein in those two animals or not enough of the same protein to make them similar to each other fference between the human and the monkey, and there is only three

### **Fill out the following character matrix. Mark an "X" if an ...**

CLADOGRAM ANALYSIS What is a cladogram? It is a diagram that depicts evolutionary relationships among groups It is based on PHYLOGENY, which is the study of evolutionary relationships Sometimes a cladogram is called a phylogenetic tree (though technically, there are ...

### **READ!x x xx x xx x x xx x x x xJUNEBUGS X X X X X Xshell ...**

CLADOGRAM ANALYSIS What is a cladogram? It is a diagram that depicts evolutionary relationships among groups It is based on PHYLOGENY, which is the study of evolutionary relationships Sometimes a cladogram is called a phylogenetic tree (though technically, there are ...

### **Cladogram Worksheet Name: Period:**

cladogram 4 On the cladogram above, add traits that make the organisms different from each other 5 According to your cladogram, which two species are more closely related: worms and spiders or worms and ants? How do you know? 6 According to your cladogram, what species are flies most closely related to? How do you know?

### **Cladogram Basics - PBS**

To make a cladogram, scientists first collect data on the features of all the organisms they hope to classify This data is then analyzed to determine which character-istics were present in what could have been a common ancestor and which might have been developed in later times Use the following instructions to make a

### **Cladograms - Integrative Biology**

Cladogram of Phyla covered in Bio 11 Cladograms Cladograms are constructed using a method known as 'cladistics' This method analyzes a collection of heritable character data compiled by a researcher (morphology and/or DNA) This method groups taxa based on the number of characters that they share with one another Cladograms

**AP Biology Phylogeny Review Worksheet Tree 1**

B Draw a cladogram showing the relationship of these beetles Make sure it is the simplest tree, invoking the fewest possible character state changes  
 14 Using the cladogram below, the relative lengths of the frog and mouse branches in the phylogenetic tree indicate that a Frogs evolved before mice  
 b Mice evolved before frogs c

**Biology 164 Laboratory PHYLOGENETIC SYSTEMATICS**

describe so look at the example matrix and cladogram below and then just give it a try, and ask for help if you get stuck We will go through this as a group before lab is over to make sure everyone understands Look at the hypothetical example first

**Name Period an Classification: Tree of Pasta 1. From your ...**

Classification How Make a Cladogram a) Look at the pasta samples you have Fill in the chart below — for each trait, put an "X" in the box if the pasta has that characteristic PASTA Trait Using the information from your chart, draw a cladogram of the types of pasta

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4 Use the following data table to construct a cladogram of the major plant groups From this data table, you should first construct a table similar to the one in Question 5 below This will make it easier to construct the cladogram Organism Mosses in Trees lowering Plants ferns Total Vascular Flowers Seeds Tissue (14) M6S\$ 5 6 c)Roec OF

**Constructing Evolutionary Lineages using DNA BLAST**

Procedure (Part 1) - Make a sketch of the cladogram shown on the right (Figure 4) Follow the directions on pages 44-45 in the student lab manual, and mark your prediction for the placement of the fossil shown left (Figure 3) on the cladogram using a dot labeled (S) ...