

## Cladogram Lab Activity Using Pasta

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Using the information from the completed table, build a cladogram with the first branch from the bottom belonging to the organism with the fewest derived traits. The organism with the most derived characteristics goes to the top of the last branch. Eukaryotic Multicellular Vertebral. Column Amniotic. Egg Hair Placenta Opposable. Thumb Embryonic

### Constructing a Cladogram Activity

Make a Cladogram Lab. Background: Cladistics is the study of evolutionary classification. A cladogram, or a branching tree, shows evolutionary relationships among organisms. Comparative morphology investigates characteristics for homology and analogy to determine which organisms share a recent common ancestor.

### Cladogram Activity

Classification: Pasta's Phylogenetic Tree Important definition: Shared derived characteristic (synapomorphy) \_\_\_\_\_ 2. Look at the cladogram below. a) What is a shared derived characteristic for all 4 species? \_\_\_\_\_ b) Write 3 more shared derived characteristics on the cladogram for the top 3 species, the top 2 species, and the top species

### Tree\_of\_Pasta\_Activity[1] - Classification Pastas ...

construct a cladogram, and properly interpret and analyze that cladogram in terms of how it shows common ancestry and degrees of evolutionary relationship. D. Procedure : Step 1 . Using your textbook and the explanations below, determine which of the characteristics each animal has.

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

Use that matrix to create a cladogram, and then identify characters as being synapomorphies, autapomorphies, plesiomorphies, or homoplasies. 6. In the full lab write-up that you turn in, remember to include: 1) your cladogram of the snail shells, each with the complete data matrix attached, ...

## Read Book Cladogram Lab Activity Using Pasta

### **LABORATORY EXERCISE 6: CLADISTICS I lungfish frog ...**

Stop the video and talk a little about parsimony. Have the students define it in their lab notebooks using the Frayer method. Students should include the definition, an example, a picture, and a sentence correctly using the word. Explain to students the importance of setting parsimony as a criteria in constructing cladograms.

### **Lesson Building a cladogram (Part 2/3) | BetterLesson**

Phylogeny & Cladistics Activity Background: One way to discover how groups of organisms are related to each other (phylogeny) is to compare the ... "cladograms" (CLAY-doe-grams); see examples provided by your teacher. The organisms are at the tips of the ... Use the following data to construct a cladogram of the major plant groups. 3.

### **AP Biology Name/Hr: Phylogeny & Cladistics Activity**

Radish Seed Lab- Chris Courtsunis 2012 CIBT Alumni Workshop High School Inquiry/Scientific Method Middle School Plants. This laboratory activity will test the effects of various household chemicals on the germination and growth of radish seeds in the lab. Downloads Radish Seed Lab (Chris Courtsunis) Radish Seed Lab Rubrics (Chris Courtsunis)

### **Labs & Activities - Cornell Institute for Biology Teachers**

Pre-lab Questions : Use the following word bank to identify the descriptions by writing the correct term on the line. Not all words will be used: Cladogram Cladistics Phylogeny Derived characters \_\_\_  
Derived characters \_\_\_\_\_ 1. Characteristics that appear in recent parts of a lineage but not in its older members.

### **CLADOGRAM ANALYSIS LAB KEY 2015-CF**

BASIC CLADOGRAM TERMINOLOGY: Use the following labeled Cladogram Example to illustrate the following cladogram terminology, and then use both to answer the questions below. A node corresponds to a hypothetical ancestor. A terminal node is the hypothetical last common ancestral interbreeding population of the taxon labeled at a tip of the cladogram. An internal node is the hypothetical last ...

### **Interpreting Cladograms - CSUF**

Use of imaginary organisms for such studies offers a distinct advantage over using real groups, because preconceived notions and biases about classifications and evolutionary relationships can be eliminated. Create a dichotomous key of your Caminalcule species. Refer to the pasta key from the previous exercise to guide your organization.

### **Evolution and Biodiversity Laboratory Systematics and Taxonomy**

W4112 Ichthyology. Written Assignment 1: Candy Phylogeny. Phylogenetics is the science of evolutionary relationships. It is fundamental in our understanding of how life evolved, how characteristics are shared across the tree of life, and allows us to make testable predictions about the biology of organisms.

### **Candy Phylogeny | The Drew Lab**

In this lab activity, students study the morphological features of preserved animals, perform dissections, and construct cladograms on the basis of morphological similarities. Extension Discuss how this classroom activity is similar to and different from biological classification (e.g., the objects being classified are not evolutionarily related).

### **Introduce Your Classroom to Classification | Carolina.com**

In this section of lesson students explore the building and use of cladograms for the purpose of organizing living things based on evolutionary relationships. (MS-LS4-2. Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer ...

### **Seventh grade Lesson Cladograms - Exploring Evolutionary ...**

Classroom Activity for the NOVA program Missing Link, The: In Nailing Cladistics, students collect, analyze, and interpret information about objects in order to classify them in a cladogram.

### **NOVA Online | Teachers | Classroom Activity | Missing Link ...**

## Read Book Cladogram Lab Activity Using Pasta

Students explore animal diversity and learn to classify different animals using a cladogram. The kit includes a classroom set each of preserved crayfish, grasshoppers, perch, frogs, and rats. Students observe and record similarities among the organisms then create a cladogram predicting their phylog...

### **Studying Classification with Cladograms Kit | Carolina.com**

This interactive module allows students to compare the morphological characteristics of seashells and construct an evolutionary tree. Taxonomy is a discipline in science concerned with grouping species by common traits.

### **Sorting Seashells - HHMI BioInteractive**

There is a labeling portion to the cladogram they construct and four lab questions. There is a teacher note sheet on how to lead the activity and a broad rubric for the grading of the activity. I have the students present their cladogram to the class and explain their thought process in developing their hypothesis.

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