# Caminalcules Answers

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#### **Caminalcules Answers**

1. The Classification and Evolution Lab handout. 2. Pictures of the Caminalcules (in Word format)
3. Instructor Notes for both a two- and three-hour lab. 4. A diagram of the correct phylogenetic tree.

Note that in my lab I use only a subset of all the 77 Caminalcules.

#### **CLASSIFICATION AND EVOLUTION - UF CPET**

#1) Find one example of convergent evolution among the Caminalcules. Answer: The best example that I can think of is the wings on a bat. They have elongated fingers that make up most of the wings. They use skin that is stretched between their fingers to create the area that is required to produce lift.

# Caminalcules Questions, Please help !! Find one example of ...

Best Answer: The caminalcule is an imaginary organism invented by a biologist named Joseph Camin for scholastic purposes only. It's a thought exercise for students to basically make up their own parts. Check out the links below, they will help explain!

# Vestigial Structures in Caminalcules??!? | Yahoo Answers

The study that tries to answer these questions is known as phylogenetics. To understand the principles of human evolution based on the fossil record, students explored the patterns of divergence and diversification in the morphology of Caminalcules: a fictive group of animal-like life forms.

# A family tree of Caminalcules | Turkana Basin Institute

Caminalcules Analysis. Name \_\_\_\_\_ 1 - Compare your original phylogeny prediction from Exercise 2 with your final phylogeny, Exercise 3. How did you do? Which parts of your original ideas were confirmed by the fossil record? Which parts were refuted and need to be changed due to fossil evidence?

## **Caminalcules Analysis - Google Docs**

Caminalcules are imaginary organisms invented by the late Joseph H. Camin (Sokal 1983). According to Sokal (1983), Camin created his organisms by starting with a primitive ancestor and gradually modifying the forms according to accepted rules of evolutionary change. Camin's intent was to develop a known phylogeny (something that is generally ...

#### **LIVING CAMINALCULES: - Wilmington College**

CLASSIFICATION AND EVOLUTION. Caminalcules are imaginary animals invented by the evolutionary biologist Joseph Camin. In this lab exercise you will construct an evolutionary tree of the Caminalcules using both the "living" species and the additional 57 "fossil" species.

#### **CLASSIFICATION AND EVOLUTION - New Hampshire**

of the Caminalcules are defined and a data matrix is furnished for all Recent and fossil species. A new phenetic standard is proposed for the Caminalcules which divides them into five "genera." The true cladogram is revealed for the first time. Recent Caminalcules have evolved over 19 time periods.

#### Society of Systematic Biologists - University of Miami

6) Answer the following questions: a) Describe two examples of vestigial structures that you can find among the Caminalcules. These are structures that have been reduced to the point that they are virtually useless. Ear muscles and the tail bones are examples of vestigial structures in our own species. Lab 1 Worksheet – Classification ...

#### Lab 1 Worksheet Classification Evolution 1 of 3 2 Answer ...

Caminalcules (from Camin and animalcule) are a fictive group of animal-like life forms invented by Professor Joseph H. Camin (University of Kansas) as a tool for understanding phylogenetics. Interested in how taxonomists group species, he designed these creatures to show an evolutionary

pattern of divergence and diversification in morphology.

# Caminalcules - Wikipedia

Evolution. Learn all about the history of life with these resources and articles on natural selection, genetics, cell types, Charles Darwin, and more.

# **Evolution - ThoughtCo**

"Correct processes" and "Best explanations" is the most you can get in real science. It's why answers have been supressed from all the documents given here. Of course you or your students can look for it through internet. Discourage them to do so: in fact, nobody worries about the real evolutionary history of Caminalcules.

## Didactic guide for teachers - caminalcules - Google Sites

Find one example of convergent evolution among the caminalcules. This means finding cases where two or more species have a similar characteristic that evolved independently in each lineage. The wings of bats, birds, and bees are an example of convergence since the three groups did not inert the characteristic from their common ancestor. Write your answers in complete sentences (e.g. &quot ...

# What is an example of convergent evolution among the ...

The Classification & Evolution of Caminalcules Robert P. Gendron R EADERS of this publication understand the importance, and difficulty, of teaching evolution in an introductory biology course. The difficulty arises, in part, because evolutionary pro-cesses are slow and generally cannot be observed, even over the course of an entire year. One ...

# The Classification & Evolution of Caminalcules

Caminalcules there is also a number in parentheses indicating the geological age of each specimen in millions of years. Most of the fossil Caminalcules are extinct, but you will notice that a few are still living (e.g. species #24 is found among the living forms but there is also a 2 million year old fossil of #24 in our collection).

## LAB #18: Evolution and Classification

The earliest fossil caminalcule was seen as the ancestor of all subsequent forms which evolved through a multi-branched evolutionary tree (with some lineages becoming extinct, etc.). At left is an animated gif illustrating one sequence of 13 evolving caminalcules (from Caminalcules, Snouters and Other Unusual Creatures).

# Caminalcules ~ Hudson Valley Geologist

Caminalcules are imaginary organisms invented by Joseph H. Camin (Sokal, 1983). The name of Caminalcules have its origin on the "animalcules" from Anton Van Leewenhoek . Your mission is to discover the evolutionary history of these strange species, and develop a way to identify and classify them.

#### caminalcules - Google

Caminalcules Discovery 4. Once you have sorted the organisms into their respective species, neatly glue each group of organisms onto your student answer page. Leave plenty of room to write in family and scientific names above each group and three shared traits below each group. To best

# Caminalcules Discovery - Mrs. Nicholls's Super Science Site!

CLASSIFICATION AND EVOLUTION Caminalcules are imaginary animals invented by the evolutionary biologist Joseph Camin. In this lab exercise you will construct an evolutionary tree of the Caminalcules using both the "living" species and the additional 57 "fossil" species. This illustrates how modern classification schemes attempt to reflect evolutionary history.

#### Phylogeny of Caminalcules - CLASSIFICATION AND EVOLUTION ...

The Classification and Evolution of Artificial Organisms . In this lab you will develop a taxonomic classification and phylogenetic tree for a group of imaginary organisms called Caminalcules after the taxonomist Joseph Camin who devised them. At the back of this chapter are pictures of the 14 "living" and 58 "fossil" species that you will use.

# **Caminalcules Answers**

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