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Resource ID#: 48289

Primary Type: Project

Dichotomous Keys and Cladograms Performance Task

Students will work in groups to select 5-10 organisms, create a dichotomous key that could identify them, and a cladogram to show their evolutionary relationships.

Dichotomous Keys and Cladograms Performance Task: This performance task requires groups to select 5- 10 organisms, analyze their characteristics thoroughly and develop a dichotomous key that others could use to identify them. They will then place these organisms in a cladogram. They will hand their project off to another group for them to recreate a cladogram after keying out the organisms. They will compare their finished product with the one originally produced and discuss with each other any differences they observed.

Dichotomous Key Performance Task Rubric-Model: This rubric can be used to evaluate student performance on this task.

Subject(s): Science
Grade Level(s): 9, 10, 11, 12
Intended Audience: [Educators](#)

Suggested Technology: Computers for Students, Internet Connection

Freely Available: Yes

Keywords: dichotomous key, cladogram

Instructional Component Type(s): [Project](#), [WebQuest](#),

Instructional Design Framework(s): [Cooperative Learning](#)

Resource Collection: FCR-STEMLearn Science - General

SOURCE AND ACCESS INFORMATION

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Related Standards

Name	Description
SC.912.L.15.1:	Explain how the scientific theory of evolution is supported by the fossil record, comparative anatomy, comparative embryology, biogeography, molecular biology, and observed evolutionary change. Remarks/Examples: Annually Assessed on Biology EOC. Also assesses SC.912.L.15.10 SC.912.N.1.3 SC.912.N.1.4 SC.912.N.1.6 SC.912.N.2.1 SC.912.N.3.1 and SC.912.N.3.4 .
SC.912.L.15.4:	Describe how and why organisms are hierarchically classified and based on evolutionary relationships. Discuss distinguishing characteristics of the domains and kingdoms of living organisms.
SC.912.L.15.6:	Remarks/Examples:

