



Title: Classification of Living Things Foldable	
Author: Melanie Kiker Little Rock Central High School Little Rock	
Course: G/T Science Biology	Duration: 20 minute lesson and 1 hour class assignment or take home assignment
Grade Level: 7-12	
Objective: Students will demonstrate an understanding of the classification of life and the characteristics of the domains and kingdoms. Each Kingdom will include its contribution to fossil fuel production.	
Summary of Lesson: Students design a folder that will condense the information on the classification of life. To further their understanding of fossil fuels, they will identify the contribution of each Kingdom to the production of fossil fuel production.	
Standards: Common Core State Standards, Arkansas State Frameworks.	
CODE	STANDARD
G/T	
C.1.7-12.8	Create unique products or ideas by combining, organizing, redesigning, reversing, or substituting concepts or materials
Biology	
CDL.7.B.1	Differentiate among the different domains
CDL.7.B.2	Differentiate the characteristics of the six kingdoms
Teacher Excellence Support System (TESS): 1c: Setting instructional outcomes, 1d: Demonstrating knowledge of resources, 1e: Designing coherent instruction, 1f: Designing student assessments, 3b: Using questioning/prompts and discussion, 3c: Engaging students in learning, 3d: Using assessment in instruction.	
Instructional Strategies and Practices: Nonlinguistic Representations- Use physical models and physical movement to represent information.	
Bloom's Level: Highest Level Only	



Creating

Materials and Resources:

- Manila folders
- Colored pencils
- Markers
- Construction paper
- Glue
- Cladogram for Smartboard
- Websites:
 - http://www.windows2universe.org/earth/Life/classification_intro.html
 - <http://rmascience.weebly.com/classification-of-organisms.html>

Formative Assessment:

Students pin their foldables around the room and the class does a “gallery walk” evaluating each other’s projects. Students are required to leave one positive piece of feedback and one piece of constructive criticism for each project.

Summative Assessment:

There is also a quiz given at the end of class covering the basics of classification.

Notes to Teacher:

Previous knowledge includes an introduction to taxonomy, cladograms, and the basic characteristics of each kingdom with video and actual examples. Smartboard, video or handouts can be used for any of these lessons.

Student Activity

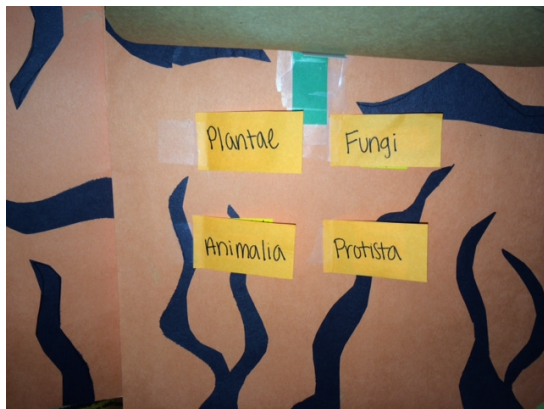
1. Instructions for Smartboard:
 - This is a folder that will compact information on the classification of life.
 - The outside of the folder must have a title that includes the phrase “Classification of Life.”
 - Decide on a theme and choose a method of display for this project. An area of personal interest may be used as a theme. (Example, soccer, sailing, marine life—the example shown is a school mascot.)
 - The information must be glued in the folder so that a flap can be raised to review the material.
 - More specific flaps should be underneath their corresponding general flaps. (Example: Kingdom Animalia is found under the Domain Eukarya flap.)
 - Each Kingdom must have a flap that describes the contribution to fossil fuel production
2. If students do not finish in class, they may take this home and bring it back the next class. (Self-paced)

- Students pin their foldables around the room and the class does a “gallery walk” evaluating each other’s projects. Students are required to leave one positive piece of feedback and one piece of constructive criticism for each project.
- The teacher will use a rubric to grade the foldables. (A printable copy of the rubric is available at: <http://www.arkansasenergyrocks.com/educators/index.html>. (Select Curriculum, then 9-12 Lesson Plan, then lesson title.)

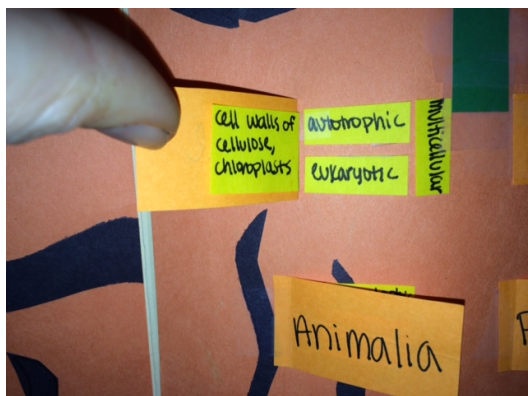
Examples of finished product:



Inside the manila folder the student has three large flaps (paw prints) that are labeled with the domains. The theme here is a mascot, the tiger.



Under the Eukarya paw print there are four flaps for the kingdoms that are under the Eukarya domain.



Under each of the Kingdoms there are flaps that describe the 1) cell type (eukaryotic or prokaryotic), 2) movement (cilia, flagella, non-motile, 3) cell organization (uni or multicellular), 4) cell structure, 5) examples of organisms, 6) contribution to fossil fuels.



Teacher Information Sheet: A printable copy of the rubric is available at: <http://www.arkansasenergyrocks.com/educators/index.html>. Select Curriculum, then 9-12 Lesson Plan, then lesson title.)

**Teacher Information Sheet
Classification of Living Things
Rubric for grading the foldable**

Folder Includes all 3 Domains.	/5
Folder includes all 6 Kingdoms	/5
Each Kingdom has flap with examples	/5
Each Kingdom has a flap that describes how the group gets nutrition	/5
Each Kingdom has a flap that describes contribution to fossil fuel production	/5
Each Kingdom has a flap that describes the cell type	/5
Each Kingdom has a flap that describes the cellular structure	/5
Neat, easy to read, good study guide, and rubric placed inside foldable.	/5
Creativity, this includes not using examples given on the table but finding your own.	/10
Grand Total	/50