

Name_____ Per._____ Date_____

GEOLOGIC TIME SCALE PROJECT

Background

Each group is responsible for creating a visual, auditory, or physical model for one of the following eras: Precambrian, Paleozoic, Mesozoic, or Cenozoic.

Requirements

Projects should address the following:

- Landmasses - What did the surface of the Earth look like? Illustrate the arrangement of landmasses and/or continents.
- Climate - What was the climate like? Was there an ice age? Was it very warm?
- Earth Events - What major Earth events occurred during the period? Was there widely distributed volcanic activity, an asteroid impact, or the formation of large mountain belts?
- Organisms - What plant and animal groups lived during the period? What organisms became extinct?

Options

Bodily/Kinesthetic: (choose one activity)

1. Find and use materials to create an interactive model of events of your time period. Present this model to the class.
2. Design and perform a skit in which you enact events from your time period.

Intrapersonal

1. Visualize and imagine that you are an eyewitness during your time period. Create and write a journal of your journey discussing where you have been, what you are doing and what living and nonliving things you are interacting with along the way. You may also use pictures to record your journey.

Logical/Mathematical

1. Invent a logic puzzle or a game that shows how events from your time period happened. For example: board games, card game, physical game, etc. NO JEOPARDY OR PICTURE PUZZLES!

Musical/rhythmic

Write a song, rap or poem to describe events from your time period. Record or perform for the class or teacher.

Verbal/linguistic (choose one activity)

1. Create a story of the events from your time period. This should be creative and interesting. You may write your project, perform it as a storyteller or record a video of you or another person telling your story dramatically.
3. Write and present a 4 minute speech on the events from your time period and present it to the class. Include well-supported and explained details. Deliver the speech from memory or notecards.

Visual/spatial (choose one activity)

1. Create an original 3-D visual representation of the events from your time period.
2. Create and edit a 3 minute video that demonstrates the events from your time period.
- 3 Create a poster representation of the events from your time period.

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Knowledge of Content	Has a lack of understanding of the events of your time period as outlined in the requirements above. 1 2 3	Shows some understanding of the events of your time period as outlined in the requirements above. 4 5 6	Shows a good understanding of the events of your time period as outlined in the requirements above. 7 8 9	Shows a full understanding of the events of your time period as outlined in the requirements above. 10
Organization	No evidence of planning. 1 2 3	Some evidence of planning but not always logical. 4 5 6	Well planned and follows a logical sequence. 7 8 9	Extremely well planned and has a smooth transition. 10
Creativity	Little to no originality in composition and delivery. Limited to no evidence of critical thinking skills. 1 2 3	Somewhat original in composition and delivery. Some evidence of critical thinking skills. 4 5 6	Mostly original in composition and delivery. Adequate evidence of critical thinking skills. 7 8 9	Very original composition and delivery. Strong evidence of critical thinking skills. 10
Multimedia	Distracts audience from content and purpose. 1 2 3	Does not distract audience from content and purpose. 4 5 6	Supports content and purpose. 7 8 9	Greatly enhances content and purpose. 10
Class Productivity	Wasted class time. Was unable to focus on class expectations 1 2 3	Distracted others. Did not use class time productively. 4 5 6	Used most of class time well. Worked well and needed redirection 1-2 times. 7 8 9	Used all class time well. Worked well with others and NEVER needed redirection. 10

Total Score _____/50

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Key web references for Geologic Time

University California Museum of Paleontology: Geologic Time Scale with links for each time interval

<http://www.ucmp.berkeley.edu/help/timeform.php>

Advent of Complex Life from NASA Astrobiology Institute

http://www.complex-life.org/timeline_events

The Paleontology Portal: Exploring Time and Space

http://www.paleoportal.org/index.php?globalnav=time_space

National Geographic: Prehistoric Time Line

<http://science.nationalgeographic.com/science/prehistoric-world/prehistoric-time-line/>

PaleoMap Project: Images of plate reconstructions and climate history for all intervals in Earth history

www.scotese.com

Colorado Plateau Geosystems, Inc.: Fantastic paleogeographic reconstructions

<http://cpgeosystems.com/index.html>

San Diego Natural History Museum: condensed page of key geologic events

http://www.sdnhm.org/archive/exhibits/mystery/fg_timeline.html

The Ohio Historical Society's Ohio History Central website: Ohio's Geologic Periods

http://www.ohiohistorycentral.org/w/Ohio%27s_Geologic_Periods