

Geologic Timeline Project

Earth Science 8 – Mrs. Duddles



Objective: Students will gain an understanding of how scientists have organized Earth's history in the geologic time scale. Earth's history is organized into different categories that are characterized by major events, both geological and biological, that have occurred over time. Earth's history is divided into categories called eons, eras, and periods, etc. Students will be assigned to a specific time period, and students need to research information that thoroughly describes their time period. This information should include major earth events, changes in continents and climates, evolution of plants and animals, as well as specific information about characteristic plants and animals.

Time period that you have been assigned: _____

Part 1 Timeline Format (30 points)

- ☒ Timeline must be approximately one meter in length and the entire space must be used.
- ☒ The timeline **must be as close to scale as possible** and contain a key.
- ☒ Title top and center and all lines must be drawn with a ruler.
- ☒ *****Your name and class section on the top, front, right hand corner*****
- ☒ Eon, Era, and Period should be labeled on the bottom.
- ☒ Time intervals must be even and appropriate for the range of time being represented.
- ☒ Make a rough draft or plan on a separate sheet of paper.
- ☒ The **entire** paper must be covered with large colored illustrations, color printed pictures, labels and information of organisms from the time period. (5 landforms, 10 plants, 15 animals, minimum.)
- ☒ No more than 50% of the pictures can be printed from a computer. All pictures must be colored and shaded and have *captions*, sentence(s) describing the picture.
- ☒ Information can be typed or hand written very neatly with a pen (NOTHING should be done in plain pencil!).
- ☒ Organize information so that the viewer can find different kinds of information easily. For example, all the information on plants is typed in green or on a green frame.
- ☒ The background of the timeline should be a panorama of representative organisms and landforms.
- ☒ Other pictures can be added with captions in frames and pasted to the paper.
- ☒ Anything that is pasted to the timeline must be framed in construction paper.
- ☒ Labeling should be *on straight lines to the right of objects*.
- ☒ Include a typed Works Cited list in MLA format on the back of your timeline.

Part 2 Presentation (10 points)

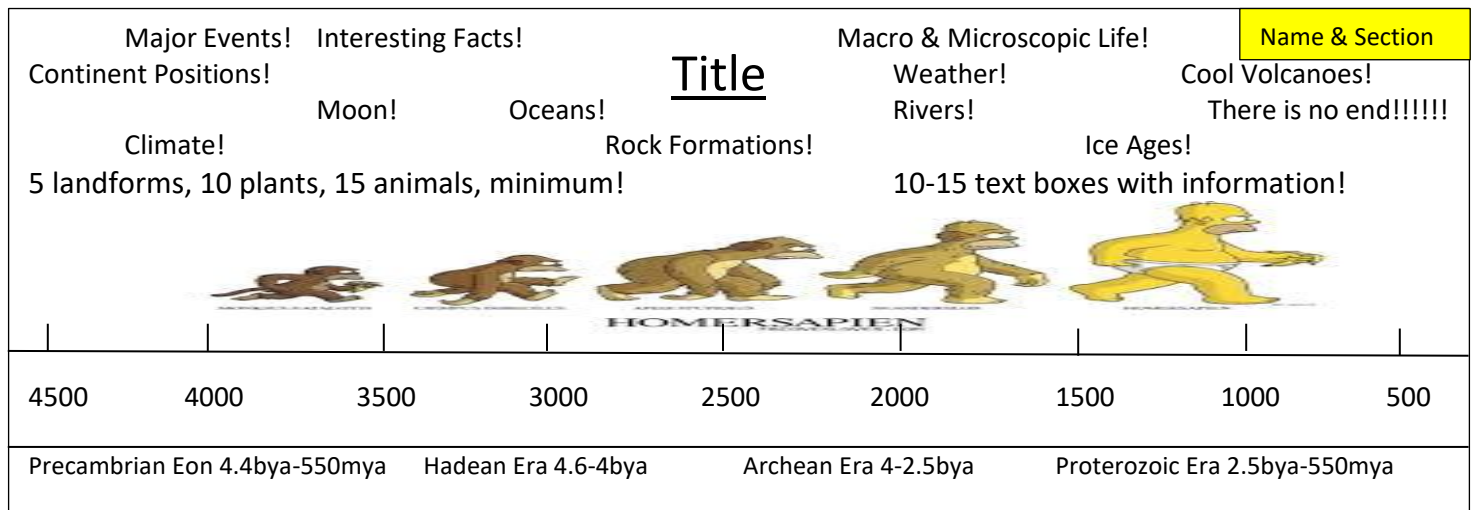
- ☒ You will present your timeline to the class in a 2 – 3 minutes presentation.
- ☒ You must prepare a script and practice your presentation and present to the class. Please do not just read from your timeline!
- ☒ You must demonstrate that you are the expert on your assigned time period!

Date Due: _____ **Wednesday, May 22, 2019** _____

Geologic Timeline Project Rubric – Mrs. Duddles Class

Score	Description
4 (>40 points)	The timeline has all of the required information and pictures, has followed all of the directions, and has additional special features that significantly add to the project.
3 (40 – 35)	The timeline has all of the required information and pictures, and has followed all of the directions.
2 (35 – 31)	The timeline has most of the information and pictures, and follows most of the directions.
1 (30 – 20)	The timeline has some information and pictures, but did not follow most of the directions.
0 (<20 points)	Did not make a timeline, it is illegible, or with very little information and pictures.
Total Score	Comments

Sample Timeline



Name _____ Date _____ Section _____

Geologic Timeline Project Research & Planning Sheet

1. What is the actual time period you are researching?

Time Era: _____

Time Range: _____ to _____

Previous Geologic Era: _____

Following Geologic Era: _____

2. Describe the major climate during your time era. Climate includes average temperatures and amount of precipitation, but could also include the presence (or absence of seasons), ice ages, etc.

3. Describe some of the main geologic events occurring during this geologic period. This would include formation of mountains, opening of oceans, crunching continents, volcanic activity, major deposition of sediments, major structures eroded, etc.

4. Describe the position of the continents during this period. Where was our region (North America or MI) with respect to the equator?

5. What types of animals lived during this geologic era?

6. What are the major types of plants that lived during the era?

Helpful Resources

Use the links below to find information about your assigned time period. Your textbook and other classroom reference materials will be useful too. Be sure to document all sources using MLA formatting.

- The Geologic Time Machine (<https://ucmp.berkeley.edu/help/timeform.php>)
- US Geological Survey's The Geologic Time Scale (<https://geology.com/usgs/geologic-time-scale/>)
- Artist Douglas Henderson has created some illustrations of various geologic time periods (<http://douglashenderson.com/GalleryMain.asp?GalleryID=135474&AKey=4YBGL8XG>)
- The Paleomap Project (www.scotese.com/Default.htm)
- The Geologic Timescale (www.enchantedlearning.com/subjects/Geologictime.html) has a good chart & details on each time period.
- Find information about extinctions at Endangered Species International (<https://www.endangeredspeciesinternational.org/overview.html>)
- The Five Worst Extinctions in Earth's History (<https://www.worldatlas.com/articles/the-timeline-of-the-mass-extinction-events-on-earth.html>) is another extinction source.

Geologic Time	
Precambrian Time	Mesozoic Era
Paleozoic Era	Cenozoic Era