Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Deep Time PBS Webquest Activity**

* Please go to the following website: <http://www.pbs.org/wgbh/evolution/change/deeptime/index.html>
* Allow the flash player to be used on your computer.
* Answer the questions below

**Deep Time Questions:**

1. What does mya mean?
2. What is the furthest time away from the present we have been able to document?
3. Click on the Era names, go to the orange box, and click read more. Give a brief description of each of these. What are the different eras? When do they start and stop?
4. Click on Geology. Read through the description that pops up and describe what the green triangle for geology will mean.
5. Click on Transformation. Read through the description that pops up and describe what the blue circles for transformation will mean.
6. Click on Extinction. Read through the description that pops up and describe what the yellow squares for extinction will mean.

**Deep Time Milestones:**

Use the timeline bar at the top to navigate through the different eons and eras of earth’s history. Click on the names of the eras, and the circles, triangle, and squares on the timeline to learn more information.

Each of the biological events or life forms on this sheet appears in the “Transformation” section of the timeline. For each one, note the approximate timeframe it first appeared on earth, basic information about it, any effects from surrounding geological and/or extinction events, and any relevant information about the period, era, or eon.

**I. PRECAMBRIAN EON**

First Evidence of Life:

Bacteria Diversify:

First Eukaryotes:

True Algae:

**II. PALEOZOIC ERA**

The Cambrian Explosion:

Land plants:

Arthropods on land:

Reptiles:

**III. MESOZOIC ERA**  
Mammals

Dinosaurs:

Birds:

Flowering plants:

Click on the square for the “End Cretaceous” extinction event, and read the text. The Earth has now changed in significant ways. What changes are to come in the next and most recent stage of Earth’s history, the Cenozoic era? You might want to research this more.

**Presentation:**

In pairs or individually, pick an event (transformation, extinction, or geologic change) that interests both of you. Answer the following questions and be ready to present your findings to the class. **You need to use other resources to support your answers.**

* When did the event happen? (How many years ago?)
* Describe the event
* What other events were happening around the same time?
* When finished, neatly write information on construction paper
* Be prepared to share your information with the class.