Directions: Please use website to complete the tasks below: <http://exploringorigins.org/timeline.html>

In groups, you will be required to complete the following:

1. **PART A:** Make a timeline of the major events of life. Be sure to include a picture of the event near the time it occurs.
2. **PART B:** In the website text, read and answer the questions related to the major events.

**PART A: MAJOR EVENTS ON THE TIMELINE**

In this part you will be making a timeline of the major events in the history of life. You must find the time the events below happened, put them in order, and then create a timeline indicating when each event occurs. Be sure to also include a Title and visuals (drawings) of the events around the timeline. Make it neat and orderly, using proper spacing, a ruler, and colored markers.

Under the timeline, please answer the question in Step 4.

Step 1: Find the time each event occurs and label each event.

Step 2: Put the events in order with 1 being the oldest.

Step 3: Make a timeline including labels and pictures for the above events.

Step 4: If you could go back to witness one event, which would it be and why? Each member of the group should have their *own* answer to it.

**Oldest Geological Evidence \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Formation of the Moon \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Formation of the Earth Crust & Ocean \_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Formation of the Solar System \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Cambrian Explosion \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Proliferation of Cyanobacteria \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Evolution of Multicellular organisms \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Evolution of Prokaryotic cells \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Evolution of Eukaryotic cells \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

**Dinosaurs \_\_\_\_\_\_\_\_\_ years ago Order # \_\_\_\_\_\_\_\_\_\_\_**

Part B:

Using the website provided above, please read the descriptions underneath each of the above headings. Then find the answers to the following questions in these sections.

1. When was the late heavy bombardment? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Do you think early life could have survived it? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What is another name for blue-green algae? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What are stromatolites? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How many times did photosynthesis evolve? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. How did modern organelles evolve according to scientists? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Name two membrane bound organelles. \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. Did multicellular life evolve only once? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What is thought to have caused the Cambrian explosion? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. How long did dinosaurs populate the Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. What is thought to have led to their extinction? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. What is the current human population? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

WHAT WAS THE MOST INTERSTING FACT THAT YOU LEARNED FROM THIS ACTIVITY?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.