LAB: Geologic Timeline

Background: The geologic time scale is depicted in the center section of your ESRT. It is difficult, however, to express the important events in Earth's history in a linear fashion on a page of that size. Consequently, the ESRT compress the Precambrian (~4 billion yrs) into an inch strip (bottom) and expand the Phanerozoic (~540 million years) to fill out the page. This provides room to note the important events in geologic time, but may confuse the student trying to understand the concept of linear geologic time. SO...you will create a time line TO SCALE on a paper that lends itself well to depicting L. O. N. G. time passage.

Objective: Students will attain a sense of geologic time from a linear representation.

Procedure:

- Measure 10 cm from one end of the tape and draw a line across the tape. Write your names in the 10 cm space
- Label the line (on your name side) "NOW". All measurements will be made from this line.
- Measuring from the "NOW" line, mark off 1 meter intervals. At each interval, make a line across the tape and label the lines as increasing Billions of years. Ex: 1 billion, 2 billion etc
- Measuring from the NOW line, plot the events listed in the table on the next page.
 Plot lines on the tape. Label each line with the age and event from the table.

BIG QUESTION: How much time is represented by cm, mm, m???? **Conclusions**:

 Please share your personal experience as you became more enlightened in understanding geologic time. What surprised you? What turned out the way you expected? Does this scale conflict your previous understanding of Earth's history? Explain. Does the time line (based on scientific evidence and theory) conflict with any personal beliefs regarding Earth's history? Explain

Geologic Timeline Lab Answers

Roger Allen Smith

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