

Geologic Time Scale - Project 1/7/15 - Due Dates 1/14 or 1/15

Objective: Construct a Time line of Earth's events from the beginning of time.

Materials:

Meter Stick
Yarn - 4 colors
Colored Pencils (No Markers)
Colored Paper
Calculators

Procedure:

Step 1:
Measure a piece of Colored paper
5 1/2 Meters Long.

Step 2:
Calculate the length for each event (25 Events)
From the following unit conversions:
(convert age to a length)

1 meter = 1 billion years
10 centimeters = 100 million years
1 centimeter = 10 million years
1 millimeter = 1 million years

Step 3:
Label the left end of the colored
Paper - "Earth's beginning."

Step 4:

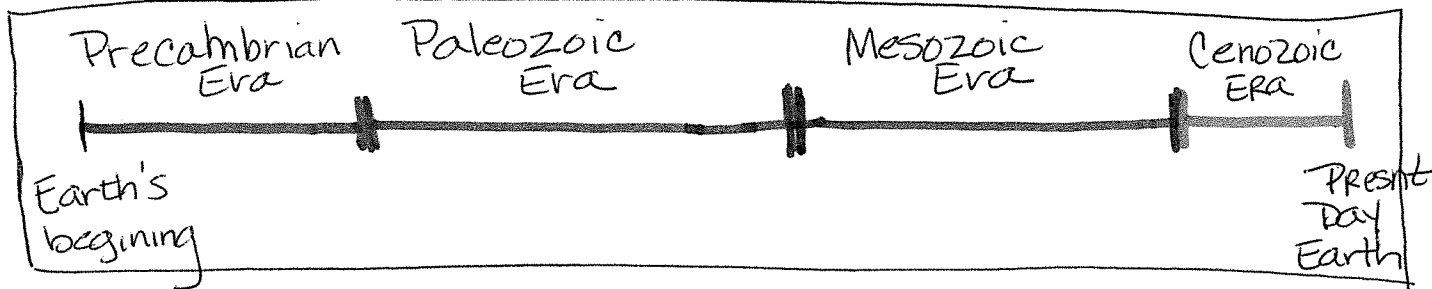
Calculate the length of yarn that Represents -

- a. Paleozoic Era
- b. Precambrian Era
- c. Cenozoic Era
- d. Mesozoic Era

Step 5:

Starting at "Earth's Beginning" Mount the yarn for Each Era in Step 4 in the correct order.
(Tape yarn on)

* Label Each Era above in words (title) *



Step-
#6

Plot the following events in the correct Geologic Era-

*******LABEL ALL EVENTS IN WORDS WITHIN THE CORRECT GEOLOGIC TIME ERA*******

- a. Earliest evidence of life 3.5 billion years ago**
- b. Abundant Unicellular organism's 3 billion years ago**
- c. Earliest evidence of cells with Nuclei 2 billion years ago**
- d. Earliest evidence of Multicellular organisms' 555 ^{million} ~~billion~~ years ago**
- e. First Land Plants 440 Million years ago**
- f. Insects and Amphibians on Land 370 million years ago**
- g. Seed plants dominate land 360 million years ago**
- h. First reptiles 340 million years ago**

- i. Dinosaurs 251 million years ago.**
- j. Pangaea formed 248 million years ago**
- k. Age of Reptiles 225 million years ago**
- l. First Mammals 200 million years ago**
- m. First birds 179 million years ago**
- n. Continental Drift; End of Pangaea 130 million years ago**
- o. First flowering plants 105 million years ago**
- p. K-T Extinction; Dinosaur extinct 65 million years ago**
- q. Age of Mammals 62 million years ago**
- r. Forests dominate land 56 million years ago**
- s. Grasslands appear 34 million years ago**
- t. Primates appear 7 million years ago**
- u. Humans appear 1 million years ago to 200,000 years ago**