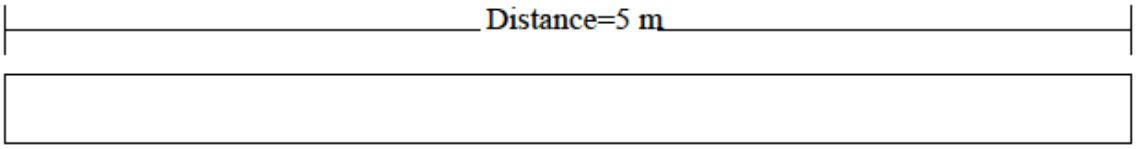
Target	1	2 (all of 1 plus)	3 (all of 2 plus)	4 (all of 3 plus)
LE 5.7 Preparedness	Does not complete formative or summative in an effortful and timely manner, is not engaged, does not arrive on time with class materials ready to learn, does not communicate when issues arise	Completes formative or summative in an effortful or timely manner, is sometimes engaged, sometimes arrives on time with class materials ready to learn, sometimes communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise, and is reflective on strengths and challenges within your preparedness skill

Making a Geologic Time Line

1. Obtain 5 meters of receipt paper OR use the time lines provided (tape them together).



2. In the top left corner, make a scale.
   Label the scale: 1 cm (one increment) = 10 million years

3. Starting on the left side of the paper, measure 5 cm (5 increments) to the right on the line, and make a vertical mark. Label this mark with the word -**Today**.

4. From this mark, measure 1 meter (100 cm = 100 increments) to the right on this line and make a vertical mark. Label this mark 1 billion years. Measure and mark each meter (100 cm = 100 increments) after that, up to 4 meters or 4 billion years from today. **Make your marks bold and big!**

5. Now, measure 60 cm (60 increments) to make the total length of the time line 4.6 meters. Mark and label this distance 4.6 billion years (**The Beginning of Earth**).

6. Label the year and name of each era on your geologic time scale.
   Using the scale 1 cm (1 increment) = 10 million years, measure the distance to each era **from Today** by using the following information.

   Eras and Eons
   Phanerozoic Eon
   Cenozoic Era = 65 million years ago = _____ cm (_____ increments) **from Today**
   Mesozoic Era = 245 million years ago = _____ cm (_____ increments) **from Today**
   Paleozoic Era = 545 million years ago = _____ cm (_____ increments) **from Today**
   Precambrian Super Eon
   Proterozoic Eon = 2.5 billion years ago = _____ cm (_____ increments) **from Today**
   Archean Eon = 4.0 billion years ago = _____ cm (_____ increments) **from Today**
   Hadean Eon = 4.6 billion years ago = _____ cm (_____ increments) **from Today**

7. Place the event cards in the appropriate spot on the timeline - be sure to discuss placement as a group before you tape them on.

(*over*)

Observations: What are three observations you can make about your timeline? What is interesting or stands out to you?

Observation 1:

Observation 2:

Observation 3: