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

**PART I: Predictions**

Study the blank **Geologic Time Scale**. Note that *Today* is at the top of the scale while *Earth’s* *Formation (4.6 bya)* is shown at the bottom. Using the area on the left side of the **Geologic Time Scale**, predict when you believe the events below occurred in Earth’s past. Use a box and an arrow to label your predictions.

The events are:

• First Dinosaurs

• First Modern Humans

• Earliest Life

• Formation of Pangaea

• Earth’s First Forests

• First Abundant Life

**PART II: Observations**

As you view the presentation, you will be directed to add information to your **Geologic Time Scale.**

**PART III: Conclusions**

Use your completed **Geologic Time Scale** to answer the following questions:

1. Compare how long the United States has existed to how long modern humans have existed. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Compare how long abundant life has existed to the age of the Earth. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What evidence do scientists use to reconstruct the events of the past?

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1. Look at page 8 and 9 in the ESRT. What information does the reference tables have about the history of the Earth?

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1. What epoch, period, era, and eon do you live in?

Epoch: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Era: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eon: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What geologic eon makes up most of Earth’s history? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What percent of Earth’s history has abundant life existed?

Do the calculation:

* + - *Abundant life = 542 my* $ $
		- *Age of the planet = 4600 my*

$$\% of Earth^{'}s History= \frac{542 my}{4600 my} x 100\%= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

1. What percent of Earth’s history have modern humans existed?

Do the calculation:

* + - *Modern humans = 1.8 my* $ $
		- *Age of the planet = 4600 my*

$$\% of Earth^{'}s History= \frac{542 }{4600 my} x 100\%= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

1. What is one question you still have about the history of the Earth?

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