

Name: _____ Date: _____ Period: _____

Geologic Time Scale

Directions: *Use the Geologic Time Scale Calendar to answer the worksheet questions and fill in dates on your year calendar. Write in only the events I have listed on the board as well as your birthday.*

1. Approximately how old is the earth (i.e. how vast is the geologic time scale estimated to be)?

2. When geologic time is compressed to the scale of a calendar year, 1 second equals about how many years? A minute? An hour? A day? A month (30 days)? A year?

3. On the dot chart that shows the eras, each dot, letter, or number represents how many years?

4. How many "calendar days" were there in between the time when the planet first formed to the time when life first originated? _____ How many actual years? _____

5. Put the following organisms in the correct order in which they appeared in the fossil record from oldest to youngest: monkeys, fish, rabbits, first dinosaurs, horses, flowering plants, insects, first bird, grasses

6. Put the following eras in order: Cenozoic, Paleozoic, Precambrian, Mesozoic

7. What date and time on the compressed calendar geologic time scale did modern man appear? How many minutes has man existed? How many years does that equal?

8. Based on the "dot scale" of geologic time, which era was the longest based on glancing at the dots? Which was the shortest?

9. What era does your birthday fall in on the geologic time scale calendar?

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10. Use the dot chart: In the “events” column, each event has a letter or number code that can be found in the chart. Fill in the following chart:

Event	#/Letter	Era	Period (System)	Epoch (Series)
Amphibians				
Bacteria				
Fish				
Mammals				
Monkeys				
Cells w/nucleus				
Reptiles				
Earth formed				
T-Rex				
Dog & Cats				
Life originates				
Flowering Plants				

11. List some things that surprise you that you learned from the time scale and tell why you were surprised

[illegible]