



Study Prep

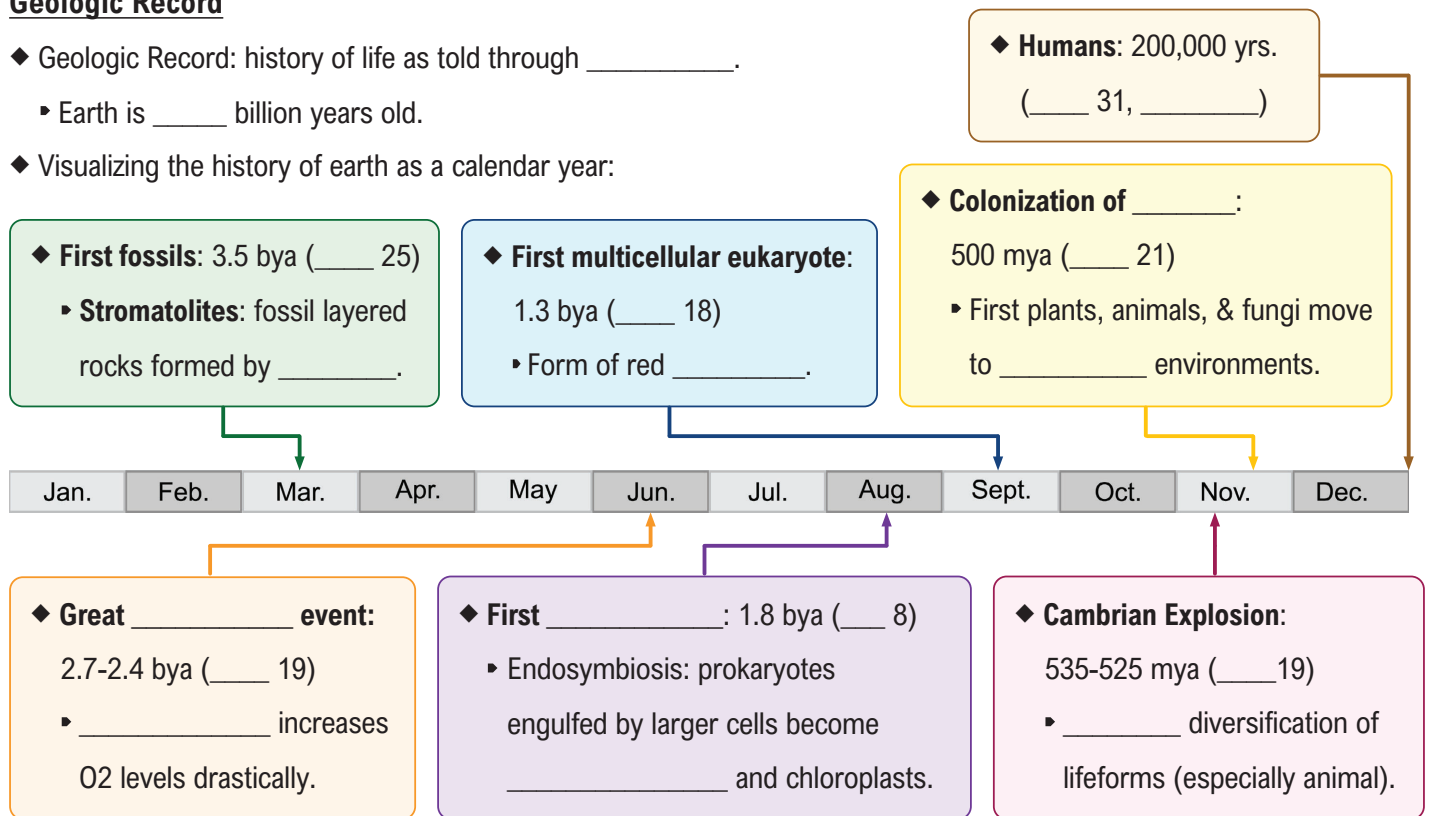
Available on Pearson+

TOPIC: HISTORY OF LIFE**Geologic Record**

◆ Geologic Record: history of life as told through _____.

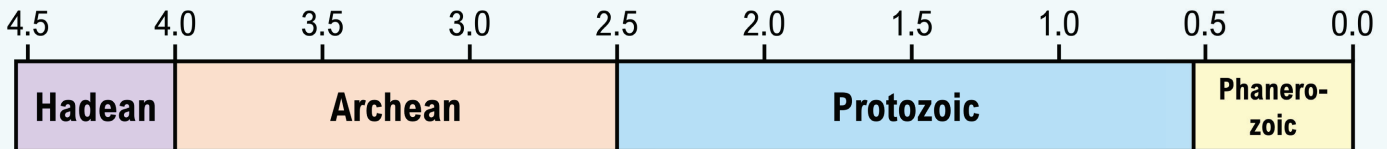
- Earth is _____ billion years old.

◆ Visualizing the history of earth as a calendar year:



TOPIC: HISTORY OF LIFE**EXAMPLE**

The timeline below shows the four eons of Earth's history, along with dates from 4.5 billion years ago. Based on your knowledge of the timing of major events in the history of life, identify in which eon each of the four events listed below occurred. Not all eons may have a corresponding event.

Billions of Years

- a) The first multicellular organisms appeared. _____
- b) The first definitive fossils are formed. _____
- c) Land was colonized by eukaryotes. _____
- d) The Cambrian explosion. _____

PRACTICE

Each option below lists several of the major events in the history of life on Earth. Which option presents the events in the correct order from the oldest to the most recent?

- a) Endosymbiosis leads to the appearance of eukaryotes → Eukaryotes colonize land → Cambrian explosion.
- b) Prokaryotes form stromatolites → Multicellular organisms appear → First eukaryotes.
- c) Land colonization → Cambrian explosion → Endosymbiosis leads to the appearance of eukaryotes.
- d) Prokaryotes form stromatolites → Cambrian explosion → Eukaryotes colonize land.