## The History of Life Section 14.1 Fossil Evidence of Change

Main Idea	
	<b>Skim</b> Section 1 of the chapter. Write two questions that come to mind from reading the headings and the illustration captions.
	1
	2
Review Vocabular	y Use your book or dictionary to define extinction.
New Vocabular	Use the terms in the left column to complete the paragraph below
Cambrian explosion	Scientists measure Earth's geological and biological events using
era	the, which is divided into
	and is the name of a
fossil	period of rapid change during which the ancestors of most animal
	groups emerged. A layer of soot found between rock layers
geologic time scale	worldwide, known as the, might indicate
half-life	that a large meteorite collided with Earth.
K-T boundary	The theory of describes Earth's surface as
	large plates that move over Earth's thick, liquid interior. These plates
law of superposition	are made up of various types of rocks are
	scientists who study They determine the relative ago
paleontologist	of rocks using, which compares the sequence of
period	rock layers. The states that younger rock
	layers are deposited on top of older rock layers. Another method of
plate tectonics	determining the age of rocks is, which
radiometric dating	measures the decay of radioactive isotopes. The rate of decay can
	he measured using the amount of time required

for half of a radioactive isotope to decay.

relative dating

# The History of Life Section 14.2 The Origin of Life

(Main Idea)——	
	Scan Section 2 of the chapter. Use the checklist as a guide.
	Read all section titles.
	Read all boldfaced words.
	Look at all pictures and read the captions.
	☐ Think about what you already know about the history of life.
	Write three facts you discovered about the origin of life.
	1
	2
	3
Review Vocabulary	Use your book or dictionary to define amino acid. Use the term in a sentence to show its scientific meaning.
New Vocabulary endosymbiont theory	Use your book or dictionary to define each term.
spontaneous generation	
theory of biogenesis	
Academic- Vocabulary	Define mechanism to show its scientific meaning.
mechanism	

## Section 14.2 The Origin of Life (continued)

## (Main Idea)

### Oetails—

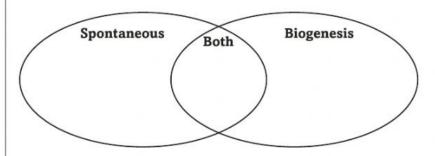
#### Origins: Early Ideas

I found this information on page \_\_\_\_\_\_.

**Create** a cartoon that illustrates how Redi's experiment was used to disprove spontaneous generation.



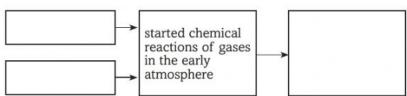
Compare spontaneous generation and biogenesis.



#### Origins: Modern Ideas

I found this information on page \_\_\_\_\_\_.

**Model** Oparin's primordial soup hypothesis for the formation of simple organic molecules by filling in the graphic organizer below.



**Identify** four requirements for life using the concept map below.

