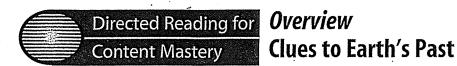
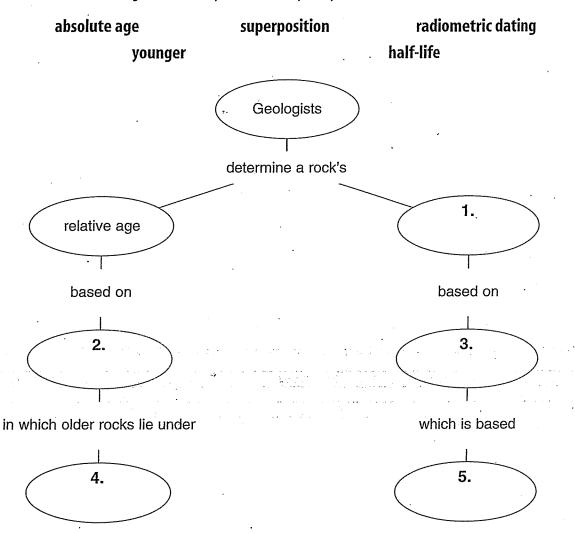
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Directions: *Use the following terms to complete the concept map below.*



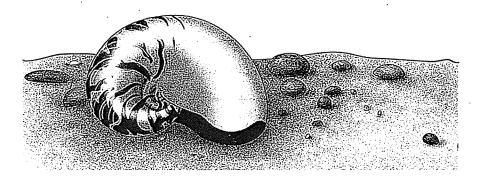
Directions: Circle the terms in parentheses that best complete the sentences.

- 6. (Permineralized remains, Carbon films) are fossils in which the spaces inside are filled with mineralized groundwater.
- 7. An insect trapped in amber is an example of (a trace fossil, original remains).

Directed Reading for Section 1 = Fossils

Directions: *Complete the following sequencing activity.*

1. Put the events below in the correct sequence on the lines provided.



- ____ a. The sediment is squeezed and cemented together into rock.
- _____ b. The seashell becomes buried in sediment.
 - ____ c. Other sediments fill the hollow place and harden into rock.
- _____ d. A seashell falls into the mud.
- e. Someone finds the fossil of a seashell buried in sediment and rock.
- f. Holes in the rock let water and air reach the seashell and dissolve it, leaving behind a hollow place in the rock.

Directions: Match the terms in Column I with their descriptions in Column II. Write the letter of the correct phrase in the blank at the left.

Column I

- _____ 2. fossil
- _____ 3. cast
 - _____ **4.** mold
- _____ 5. index fossil
- 6. carbonaceous film
- _____ 7. permineralized remains

Column II

- **a.** fossil from a species that existed on Earth for a short period of time
- **b.** fossil made from a thin film of carbon atoms and molecules
- c. remains imprint, or trace of a once-living organism
- d. hard and rocklike fossil
- e. cavity left in rock by a decayed organism
- f. produced when a cavity is filled in with solid matter

Directed Reading for Section 2 Relative Ages Content Mastery of Rocks

Section 3 ■ Absolute Ages of Rocks

Directio	ns: In the blank at the left, write the letter of the	term or phrase that best completes each statement.		
	1. In layers of undisturbed sedime the	entary rock, the oldest rocks are on		
	a. top	b. bottom		
2 11.44.44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	2. The statement that old rocks are rock is called the	e on the bottom in layers of undisturbed		
	a. principle of superposition	b. tectonic theory		
	3. Sometimes layers of rock are ov	erturned by forces generated by		
	a. superposition	b. mountain building		
 	4. Determining the age of rocks by examining their position in a layer called			
	a. relative dating	b. faulting		
	5. Gaps in rock layers are called			
	a. faults	b. unconformities		
	6. The type of unconformity in which an erosional surface exists in one of several horizontal layers is called a(n)			
	a. angular unconformity	b. disconformity		
	7. Matching of rock layers in two different areas is called the layers.			
	a. concluding	b. correlating		
	8. One way to match rock layers th are found in both places.	at are apart is to see if the same type of		
	a. fossils	b. water		
	9. In absolute dating, geologists det decay.	termine the age of rock by reading its		
	a. organic	b. radioactive		
	10. When an isotope in the rock dec	ays, a new is formed.		
	a. element	b. proton		

Meeting Individual Needs



Clues to Earth's Past

Directions: *Match the following terms with the definitions below. Write the terms on the lines provided.*

absolute a	age	carponaceous tiim	saperposicio)ii casc
mold	unconform	nity half-life	index	fossils
remains	relative	decay	dating	uniformitarianism
	1.	any gap in a rock ro	ecord .	•
	2.	the remains, imprii	nts, or traces of p	orehistoric organisms
	3.	the thin film of carbo	on that shows the	outline of an organism
	4.	Permineralized inside are filled wit		
	5.	the age, in years, of	a rock or other	object
	6.	A age is something else.	mething's age in	comparison to
	7.	the time it takes for	half of the atoms	in an isotope to decay
	8.	Radioactiveisotopes into other		
	9.	principle that says are under younger		sturbed, older layers
	10.	Radiometricabsolute age of a ro		sed to calculate the
		cavity in rock from decayed.	which an organ	ism has
	12.	the principle that E similar to those tha		
	13.	fossil created when	a sediment fills	a mold and hardens
		A(n) fossil lived during a specion of a particular rock	ific time that is u	f an organism that used to define the age

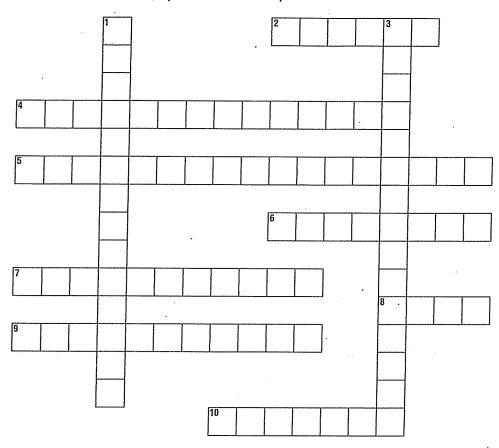
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Clues to Earth's Past

Part A. Vocabulary Review

Directions: Use the clues below to complete the crossword puzzle.



Across

- 2. Element found in tissues of most organisms
- 4. Method using properties of atoms in rocks and other objects to determine their ages
- 5. Principle stating that Earth's processes occurring today are similar to those that occurred in the past
- **6.** Time it takes for half of the atoms in a radioactive element to decay
- 7. Kind of decay that results in the formation of a different element
- 8. Cavity left in rock by a decayed organism

- 9. Method of dating rocks when the amounts of parent and daughter materials are measured
- **10.** Remains, imprints, or traces of once-living organisms

Down

- 1. Gaps found in rock records
- **3.** Actual organism or parts of organism protected from decay

Chapter Review (continued)

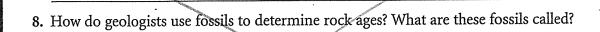
Part B. Concept Review

Directions: Complete the chart to describe different types of fossils.

Type of fossil	Description
1. Permineralized remains	
2. Carbonaceous film	
3. Mold	
4. Cast	
5. Trace fossils	
6. Index fossils	

Directions: Answer the questions on the lines provided.

7. Explain what the concept of uniformitarianism means.



9. Explain how a dead organism may become a fossil.