Skills Worksheet

Directed Reading B

Section: Looking at Fossils (pp. 264–269) FOSSILIZED ORGANISMS

<mark>fossil</mark>

1. The trace or remains of an organism that lived long ago, most commonly preserved in sedimentary rock, is a

- a. rock.
- **b.** fossil.
- **c.** meteorite.
- **d.** trace element.

2. Describe how organisms are preserved in sedimentary rock.

Small particles of sediment slowly deposit around the dead bones or shells of the organism. This creates a shape left inside the sedimentary rock, that may be discovered by a paleontologist.

3. Soft, sticky tree sap that can trap insects, frogs, and lizards, then harden

is called ____

4. Why are many frozen fossils preserved from the last ice age?

Cold temperatures slow down decay. There are still ice caps remaining that have not thawed since the last ice age. Inside these ice caps are frozen fossils like the Woolly Mammoth.

5. How long have the La Brea asphalt deposits preserved trapped organisms? for 38,000 years.

6. The process in which minerals replace the pore space in an organism's hard

OTHER TYPES OF FOSSILS

7. What is a trace fossil?

A trace fossil is a preserved evidence of animal activity, for example, footprints of dinosaurs, or leftover deer bones eaten by a saber toothed tiger.

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Directed Reading B continued

Match the correct definition with the correct term. Write the letter in the space provided.

footprint 8. trace fossil that can show how big an animal was and how fast it was moving	a. mold b. coprolite
burrow 9. trace fossil formed by the shelter of an animal, such as a clam, that buries itself in sediment	c. fooprint d. cast
coprolite 10. trace fossil formed from preserved animal dung	e. burrow
mold 11. the impression left in sediment or rock where a plant or animal was buried	
<mark>_cast</mark> 12. an object formed when sediment fills a mold and becomes rock	

USING FOSSILS TO INTERPRET THE PAST

13. The history of life in the geologic past as indicated by the traces or remains of

fossil record living things is the _

14. What are two reasons that the fossil record is incomplete?

Most organisms (especially those with soft bodies) never became fossils and many fossils have not been discovered yet.

15. In what kind of environment were marine fossils found on mountains in the Yoho National Park in Canada formed?

The fossils found in those mountains came from rocks that have been pushed up from below sea level.

16. How does fossil evidence of forests and freshwater organisms in Antarctica show that the climate there was warmer in the past?

In the past Antarctica was closer to the equator. This allowed for a warmer climate for forests to grow and fresh water to remain unfrozen.

- **17.** What are two things scientists compare to help them interpret how life has changed over time?
 - 1. similarities between different fossils and
 - 2. similarities between fossils and living organisms.

DATING THE FOSSIL RECORD

- in older rock layers **18.** Compared to fossils of organisms that lived more recently, fossils of more ancient life forms are found
 - **a.** in younger rock layers.
 - **b.** in older rock layers.
 - **c.** on top of rocks.
 - **d.** in either young or old rock layers.

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Name	Class	Date
Directed Reading B con	tinued	
a. They date orb. They date orc. They date the	sts find out the age of an ir nly the rock layer above the nly the rock layer below the rock layers above and be re the fossil to present-day	e fossil. e fossil. elow the fossil.
d. 20. Which of the for a. They appear b. They appear	ollowing is NOT true of inde only in certain rock layers all over the world. rganisms that lived during	ex fossils?
a. to date the r b. to learn about c. to learn about	ists use index fossils for? ock layers they are found is ut the ocean floor ut the minerals they are fou t ancient organisms ate	
	rock layers where fossils o ow do scientists know?	of <i>Phacops</i> , a kind of

23. About how long ago did ammonites called *Tropites* live?

between 230 and 208 million years ago.