

Chapter 29

Use with Section 1

REINFORCEMENT

● Fossils

Write the word "no" in front of statements that do not describe a fossil. Write "fossil" if the statement describes a fossil. After each fossil description, name the type described.

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|--------|---|--|
| fossil | 1. Dinosaur tracks in rocks | trace fossil |
| no | 2. Bird tracks in snow | the snow will melt |
| fossil | 3. Dinosaur leg bone containing quartz instead of calcium | petrified |
| fossil | 4. Insect in amber from a pine tree | amber preserved |
| no | 5. Oil formed from sea animals of long ago | amorphous - no shape |
| fossil | 6. Rocklike wood from a tree that lived millions of years ago | petrified |
| no | 7. Sandstone showing ripple marks from water | water is not a living thing |
| no | 8. Living pine tree more than 4000 years old | must be dead and over 10,000 years old |
| fossil | 9. Thin cavity in a rock showing where a shell had decayed | imprint |
| fossil | 10. Shell-shaped mineral found in rock cavity | cast |
| fossil | 11. Flesh, fur, and bones of a woolly mammoth preserved in frozen ground | frozen preserved |
| no | 12. Arrowhead made thousands of years ago | artifact |
| fossil | 13. Burrows of worms that lived millions of years ago | mold |
| fossil | 14. Rocklike parts of a species of fish that lived a short time in several parts of the world | cast or petrified |
| no | 15. Thin layer of carbon from the remains of a plant that lived thousands of years ago | coal is not living |

Answer the following questions on the lines provided.

16. What three kinds of information can geologists gather from a study of fossils? _____
 how old it is and what shape
17. What must happen to a dead organism if a fossil is to form? _____
 It must be buried in sedimentary rock material or preserved in amber or ice.
18. What do you know about a rock layer found on a mountain if you find a seashell fossil in the layer? _____
 The rocks in the mountain used to be below sea level long ago. Then plate tectonics pushed up the rock layers.