

8th Science Notes 12-2

name _____ hr _____

II. _____ = the remains of _____ or _____ that lived in a previous geologic _____.

A) _____ = The study of _____

- 1) Fossils mostly found in _____ rock because sediment covers the organism and prevents _____. Igneous and metamorphic rock forming processes _____ the organic structures. Fossils in rock can form if organism is _____ immediately after _____. Then, the _____ become preserved as _____ forms around them

B) Interpreting the Fossil Record

- 1) Shows us clues to the Earth's _____
 - a) _____ changes are seen by _____ fossils found on land. This shows that the area once was under oceans. (_____ was under _____ for 300 million years laying down our _____, gypsum, and dolomite, as well as _____ stones (our state stone) which are _____.
 - b) Shows how living things have _____ over _____

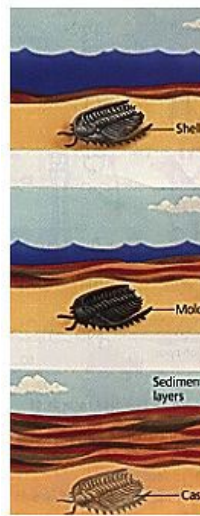
C) Types of fossils

- 1) _____ = Form in dry places where _____ cannot live.
- 2) _____ = fossils form when _____ land on a tree and get covered in _____ which _____. Sometimes _____ can be extracted (Jurassic Park?)
- 3) _____ seeps/asphalt = fossils form when an organism fell into an _____/tar _____ while trying to drink the water floating above it. Creature is then _____. (Le Brea asphalt/tar pit in LA, California)
- 4) _____ = Frozen fossils form when organisms from the last ice age died and froze, _____ the _____ process.
- 5) _____ = Petrified fossils form when _____ in _____, _____, or _____ fill with dissolved _____ (silica, calcite, pyrite) and crystallize over time

6) _____ = When original organic material _____ decays, leaving _____ behind a _____



7) _____ = A mark or _____ made in a sedimentary surface by a shell or other body part. _____ = A fossil that forms when _____ fill in the cavity left by a _____ organism.

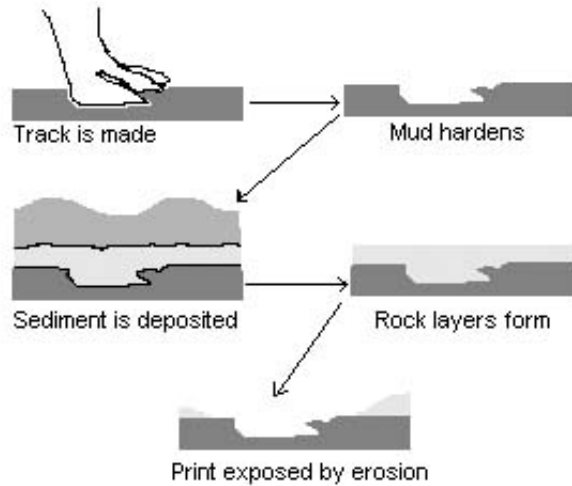


8) _____ = Fossilized _____ can preserve information about what the animal ate



9) _____ = Stones that were used in the _____ tract of some dinosaurs. (Like the stones in a bird's gizzard) They reveal that the dinosaur was a _____.

10) _____ fossil- A fossilized mark that is formed in soft sediment by the movement of an animal (_____, _____, boring, etc.)



D) _____ Fossil = A fossil that lived during a relatively _____ geological _____ that can be used to find the _____ of the rock layer it is found in.



Ammonites Mesozoic Era (245 to 65 mya)



Trilobites Paleozoic Era (540 to 245 mya)