

Free epub How fossils are made worksheet answers .pdf

fossils are the preserved remains or traces of remains of ancient organisms fossils are not the remains of the organism itself they are rocks a fossil can preserve an entire organism or just part of one bones shells feathers and leaves can all become fossils montage of multiple fossils clockwise from top left onychocrinus and palaeosinopa bottom row gryphaea and harpactocarcinus a fossil from classical latin fossilis lit obtained by digging is any preserved remains impression or trace of any once living thing from a past geological age it all depends on what an organism is made of where it lives and dies and what happens next in the dust to dust process preservation or natural recycling how do fossils form fossils are formed in many different ways but most are formed when a living organism such as a plant or animal dies and is quickly buried by sediment such as mud sand or volcanic ash a fossil is the preserved remains impression or trace of any once living organism from a past geological age these include bones shells exoskeletons stone imprints of animals or microbes objects preserved in amber hair petrified wood oil coal and dna remnants a fossil is the preserved remains or traces of a dead organism the process by which a fossil is formed is called fossilisation it s very rare for living things to become fossilised even though dinosaurs lived millions of years ago we know about them thanks to fossils watch our animation to find out how fossils form and why dinosaur fossils are rare compared to fossils of marine animals a fossil is the preserved evidence of an organism that lived in the distant past some fossils are formed from body parts such as shells or bones others such as preserved footprints are from traces of an organism s behaviors fossils are usually found in sedimentary rock fossil remnant impression or trace of an animal or plant of a past geologic age that has been preserved in earth s crust the complex of data recorded in fossils worldwide known as the fossil record is the primary source of information about the history of life on earth let s start by writing down what fossils are so what are fossils well in simple terms fossils are basically remains remains of once living animals or in general we say organisms because they may not be just animals they can be plants as well or maybe even micro organisms like bacteria in recent years researchers have discovered that some fossils aren t just made of minerals fossil analyses have shown for instance that some retain organic material dated to the watch our animation to find out how fossils form and why dinosaur fossils are rare compared to those of marine animals explore fossilisation in more detail fossils are the remains of plants animals fungi bacteria and single celled living things that have been replaced by rock material or

impressions of organisms preserved in rock paleontologists use fossil remains to understand different aspects of extinct and living organisms fossils are echoes of an ancient past find out about the two major categories of fossils how fossilization occurs and how fossils can help paint a picture rocks and minerals fossils are physical evidence of prehistoric animals and plants discover how much we can learn about the history of life on earth from fossilised remains a fossil is the mineralized partial or complete form of an organism or of an organism's activity that has been preserved as a cast impression or mold a fossil gives tangible physical evidence of ancient life and has provided the basis of the theory of evolution in the absence of preserved soft tissues the soil is an active living mixture in which dead plants and animals are broken down and recycled to escape this round of breakdown the creature must be buried and taken away from all oxygen soon after death when geologists say soon though that can mean years a fossil is any remains or trace of an ancient organism fossils include body fossils left behind when the soft parts have decayed away as well as trace fossils such as burrows tracks or fossilized waste feces figure 11 4 figure 11 4 coprolite fossilized waste or feces from a meat eating dinosaur what is a fossil a fossil is the preserved remains or traces of a dead organism close organism any living thing which includes insects plants and animals is an organism they are organised how are they made fossils are created through sudden disruptions like earthquakes they can also be formed through steadier processes like exposure to the extreme elements in most cases the environment plays a direct role as a preservative in whether an organism will become a fossil

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