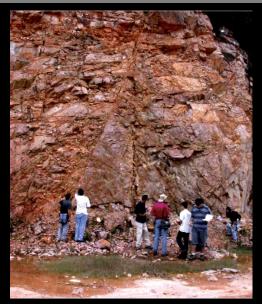
For more than 2500 years Man has been concerned with the knowledge of the Earth and the Universe. The first "scientists" studied all areas of knowledge: mathematics, astronomy, philosophy, zoology, botany, etc.

Over time, new sciences have been dedicated to new areas of knowledge.

About 300 years ago PALEONTOLOGY was created, as the branch of GEOLOGY that studies the living beings and the environments in which they lived throughout the history of the Earth.

EARTH IN TRANSFORMATION

GEOLOGY: science that studies the Earth and the phenomena that occur in it.

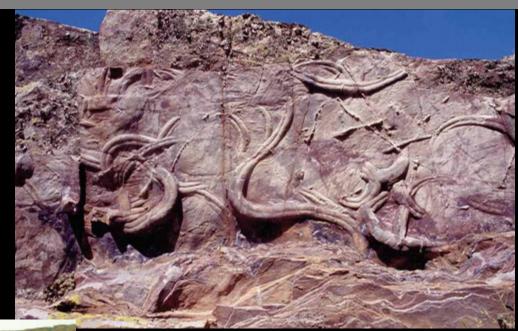








PALEONTOLOGY: science that studies the fossils.





PALEONTOLOGISTS: scientists who study fossils.

WHAT ALLOWS TO RECONSTITUTE THE HISTORY OF THE EARTH?

Rocks





Fossils







Deformations (folds and faults)

Falha

EARTH IN TRANSFORMATION



ALEXANDRA FERNANDES

WHAT ARE FOSSILS?

Organisms or remains of organisms or traces of their activity that have been preserved, usually on rocks.



The FOSSILS allow us to know the transformations that have occurred on Earth and its history.

TYPES OF FOSSILS

Somatofossil: somatic remains (that is, of the body) of organisms from the past. For example, fossils of teeth, shells, leaves, logs...



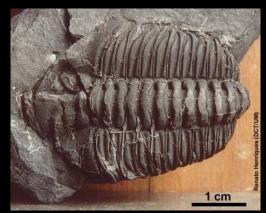
Concha de vieira (*Pecten*) , Miocénico, Algarve



Fóssil de peixe, esqueleto (Sarmatian)



Gastrópode , Jurássico Superior, Cabo Espichel



Trilobite (*Dalmanites socialis*), Ordovícico, Buçaco

TYPES OF FOSSILS

Icnofossil: organisms activity biological vestiges from the past. For example, fossils of footprints, bite marks, eggs (eggshells), excrement (coprolytes), tunnels and dwelling galleries...



Icnofossil de pegada de dinossáurio carnívoro (Terópode). Jurássico, Serra de Aire



Trilho de Trilobite , Paleozoicos, Penha Garcia



Coprólito de dinossauro



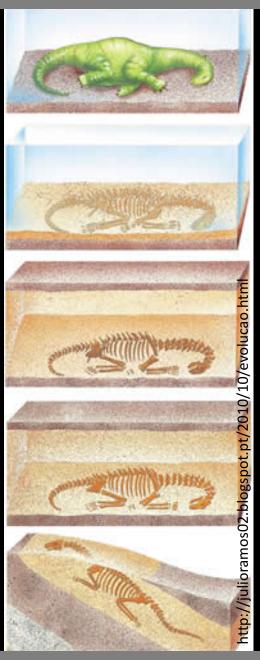
Ovo de dinossauro, Patagónia

Of all the living organisms that existed on Earth in the past, only a small part was preserved in the form of fossils

EARTH IN TRANSFORMATION

What is Fossilization?

Set of physical and chemical phenomena that allow the formation of a fossil.



Fossilization is a very rare phenomenon, since in nature the organisms after death rapidly decay.

Let's do a fossilization atelier...





