Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ P.\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes Pg# 43: Geologic Time Scale
EQ: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Paleontologists use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to reconstruct the history of \_\_\_\_\_\_\_\_\_\_\_\_. Paleo:\_\_\_\_\_\_\_\_\_\_\_ Onto:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Logy: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

A **\_\_\_\_\_\_\_\_\_\_\_** is a trace or an imprint of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that is preserved by \_\_\_\_\_\_\_\_\_\_\_\_\_\_

processes.

Fossils of \_\_\_\_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_ organisms are called \_\_\_\_\_\_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_\_\_\_ and date back as far as 3.8 billion years ago (\_\_\_\_\_). These can only be seen with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Relative Dating**

* Relative dating is used to arrange past \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, using rocks, in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This does not give the age of the rocks.
* Relative dating determines whether a fossil formed \_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_ another fossil formed.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fossils are found in layers of rock that are above \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fossils.

**Absolute Dating**

* In order for scientists to determine the age of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ they find, they

use absolute dating \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* This method gives an actual \_\_\_\_\_\_\_\_\_\_ or date range, in number of \_\_\_\_\_\_\_\_\_\_\_.
* Most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dates for rocks are found through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ methods which use radioactive minerals in rocks as a kind of geological \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



Examining the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ helps scientists identify when different \_\_\_\_\_\_\_\_\_\_\_\_ lived and died.

Some species are present in the fossil record for a \_\_\_\_\_\_\_\_\_ period of time, while others survive for long time spans \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* Examining the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ helps scientists identify when different \_\_\_\_\_\_\_\_\_\_ lived and died.
* Some species are present in the fossil record for a \_\_\_\_\_\_\_\_\_\_\_ period of time, while others survive for long time spans \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Examining the fossil records helps us determine when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occur!

**Extinctions**

* An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ happens when every individual of a species dies.
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ occurs when a large number of species go extinct during a relatively short amount of time.
* Gradual \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ changes and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ events, such as the impact of an asteroid, can cause mass extinctions.

Sixth Extinction Video Notes: