# HISTORY OF LIFE ON EARTH

### **OBJECTIVES**

- 1. To identify the dates and sequence of the periods in the geologic time scale;
- 2. To identify the major events in each major period.







When did man first appear on Earth?

1 MYA

# CLASS MISSION

You will be given random pictures and you are tasked to arrange them chronologically according to which came first.

### ANSWER THE FOLLOWING QUESTIONS

- 1. What were the 4 analogies used to understand the earth's age according to the film?
- 2. Why is it hard to create a timeline of events chronicling Earth's history?

Solution 3. What are the 4 eras of Earth's Time mentioned in the video? Describe it briefly.

# GROUP YOURSELVES! PREPARE 1 WHOLE SHEET OF PAPER PER GROUP!

# WATCH THIS VIDEO ©

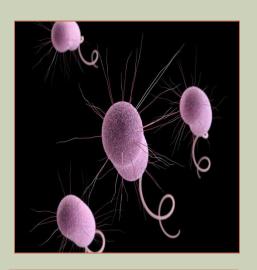
1.GEOLOGICAL TIME SCALE

2.FOUR WAYS TO UNDERSTAND THE EARTH'S AGE

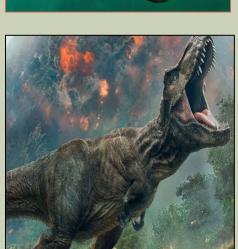
### **COLLABORATE NOW!!**

**YOU ARE GIVEN 15 MINUTES TO DO THIS!**TIMER STARTS NOW!

# THE CORRECT ANSWER...











# LET US DISCUSS YOUR ANSWERS!

# ORAL RECITATION





What must we humans
do to ensure we will still
be able to exist longer for
many generations?

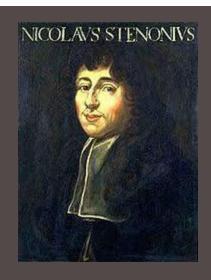
### LECTURE

The **Geologic Time Scale** (GTS) is a system of chronological dating that relates **geological** strata (stratigraphy) to **time**. It is used by **geologists**, paleontologists, and other Earth scientists to describe the timing and relationships of events that have occurred during Earth's history.

## NICOLAS STENO (1669)

#### 1<sup>ST</sup> LAW OF STATISGRAPHY

Science interpreting the strata or layers of rocks in the earth's outer surface.

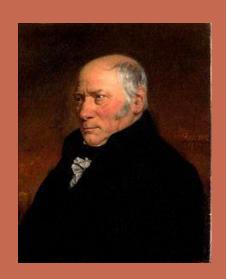


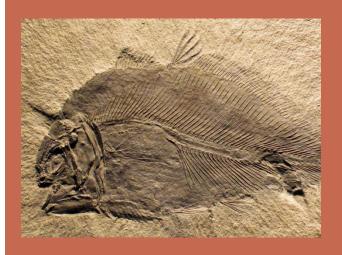


## WILLIAM SMITH (1990)

**FOSSILS! FOSSILS! FOSSILS!** 

Comparing the remains of ancient organisms from different rock formations. Thus, could match their ages regardless of how far part they were.







# FOUR MAJOR DIVISIONS OF GEOLOGIC TIME SCALE

#### EON

Largest division of the geologic time scale; spans hundreds to thousands of million years ago. (MYA)

#### ERA

The division in an era that span time periods of tens to hundreds of million years.

#### **PERIOD**

A division of geologic history that spans no more than one hundred MYA.

#### **EPOCH**

The smallest division of the geologic time scale characterized by distinctive organisms.

# My Life History

Create a timeline of events that happened to you since you were born up to present time. Choose only 5-10 events that you think are the most important.

#### **ASSIGNMENT**

- Make a table in your notebook of the geologic time scale (GTS) and include the following details;
- 1. Major divisions of the GTS
- 2. Major events and characteristic organisms