Earth Science

With

Mr. Thomas



Earth History

Re-Cap:

- ▶ Defn. of a Fossil:
 - Any evidence of earlier life preserved in rock.
 - ▶ The study of these fossils is called:

Paleontology

Absolute Time:

Defn. of a Half-Life:

The time it takes for half of the radioactive atoms in a sample to decay to a stable product.

Views of Earth's Pasti

The Geologic Timescale:

1) A summary of major events in Earth's past that are preserved in the rock record.

Views of Earth's Pasti

2) Geologic time is divided into: Eons

Which are divided into:

Eras

Which are divided into:

Periods

Which are divided into:

Epochs

Views of Earth's Pasti

- Eons The longest segment of geologic time.
- Eras Subdivisions of eons (3).
 Periods Periods differ from one
 - Periods Periods differ from one another in characteristic plant & animal life.
- Epochs Further divisions of periods.

Evolution

- ▶ Defn. of Evolution:
 - ► The process of change that produces new life forms over time.
- Provides a scientific explanation for the past & present diversity of life.

Evolution

- ► Theory of Natural Selection:
 - "Survival of the Fittest!"
 - Proposed by Charles Darwin in 1859, states that those organisms that survive to produce offspring are those that have inherited the most favorable traits for surviving in a particular environment.
 - Examples: Turtle
 Giraffe Cockroach Ant Eater



► Imagine that we could go back in time to any part of the Earth's geologic history, making it possible to see the emergence of the first lifeform, or see dinosaurs like the movie Jurassic Park. You have been selected by Rock of Ages Travel Agency to create a marketing scheme for a particular Era, Period, or Epoch in the geologic time of

► In order to fulfill the agency's request, you must submit the following no later than Monday, April 4th 2005:

- ▶ Poster
- ► Promotional Brochure / Flier Extra Credit:
- ▶ 3 to 5 minute Power Point Presentation or video.

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What's going to make the grade? Poster:

- >~~Creativity~~!!!
- > Factual & Fictional Info
 - > Colorful!!
 - > Attractive!

What's going to make the grade? Brochure:

- > ~~Creativity~~!!!
- > Factual & Fictional Info
 - > Colorful!!
 - > Attractive!
- 2-page or 3-page bi-fold Accepted!

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