

- "Trilobites"
- c. Goal - to determine the Mass extinction of these organisms

II Geologic Timescale

a. provides data for the appearance OR Disappearance of organisms throughout Earth's history

b. Paleontologists divided Earth's history into Time Units (Intervals) based on the life forms that lived ~~in~~ during Each Time Period

"Geologic Time Scale"

Paleontology

d. Eons -

- IV. Organic Evolution
- Species of Living things have changed over time
 - "Organic Evolution" - Name of changes that occur over Time
 - Environmental changes affect, or cause a species to change in order to survive And Reproduce

VI Define : .

a. Species -

b Natural Selection -

- natural Selection within a

- Single year or season.
- C. Some thick stacks of Rock have no fossils - that provide little information that help divide geologic time

II. Organic Evolution

- a. When a species changes over geologic time
- b. due to environmental changes that can effect an organism's survival
- c. organisms that DO NOT Adapt are less likely to Survive ! Reproduce

III Species - a group of organisms

- c. Theory - Organisms with characteristics that are best for survival in an environment will survive, reproduce and continue to live versus organisms that do not possess the best characteristics.
- d. any species must change over time to adapt to an environment or the species will die out.

- V. Trilobites
- a. hard outer skeleton (Exoskeleton)
3 Lobes, head, segmented body
 - b. inhabited Earth's oceans for 200 million years.

was drastically

Destroyed

d. Climate changes were also
thought to add to
Trilobite's extinction

- History,
- d) ~~Lastest~~ 4.5 Billion Years
 - e) oldest Rocks on Earth are dated to be 4 billion years old
 - f) Longest period of Geologic time
 - g) Cyanobacteria - Blue-green algae, appeared 3.5 billion years ago
 - * contained Chlorophyll and carried out ~~photo~~ Photosynthesis
 - h) There was oxygen in Earth's atmosphere due to cyanobacteria