

Geologic Time

Section 1 Life and Geologic Time

present in rock

been in the and decloyer fille
A. Geologic time—Earth's history is divided into time units that make up a
geologic time scale.
1. Time units on the scale are based on the appearance or disappearance of types of organisms such as, index fossils that lived during specific periods of time.
2. Geologic time is divided into four major <u>Subdivisions</u> .
alongest subdivision; based on abundance of fossils
b. Evas —marked by significant worldwide changes in the types of fossils

- ___characterized by differences in life-forms, but differences can be regional rather than global
- 3. Geologic time can be subdivided only if fossils are present in rock records.
- evolution—Organisms have changed over time, most likely because of B. (environmental changes.
 - 1. Species—organisms that normally heproduce only with other members of their group
 - ection__organisms more adapted to an 2. Darwin's theory of natural Sel environment are more likely to reproduce
 - 3. Natural selection within a species occurs only if characteristics present in some numbers increase their SuvVIVa
 - __ selection—breeding individuals with desired characteristics; humans use this type of selection when breeding domestic animals
 - species can evolve from natural selection.
- C. Trilobites—have an exoskeleton with three lobes; lived in oceans for more than 200 million years
 - 1. Trilobite position changed as the species adapted to various environments.
 - 2. Trilobite bodies and tails changed in response to changing environments.

Meeting Individual Needs