

K. Examples of Vertebrates - Jellyfish, Worms, soft Corals called, "Ediacaran Fauna"

II. Paleozoic ERA

- a. organisms w/ Hard parts began to appear - shells
- b. Referred to as the "Era of Ancient"
- c. began 544 million years ago
Ended 248 million years ago

d. Traces of life during the Precambrian life were easier to find in Paleozoic Rocks

e) Warm, shallow seas which covered continents
* Most life forms were Marine, or lived in oceans

f) Trilobites were common

g) Fossil Record contains many organisms that shells - imprinted in Rock

h) Invertebrates, organisms w/ No backbone existed during this ERA as well.

i) Vertebrates - Fish like creatures w/out jaws, Armoured Fish w/ jaws, Sharks,

j) Forests began, Vertebrates began to adapt to Living on Land.

K) Amphibians - Live on Land & Water -
Reptiles began to evolve.
Hard, Scaled organisms
that lived on land, in
hot dry climates

L) Mountain building began due
to ocean spreading along
Mid Atlantic Ocean Ridge.
Ex. Appalachian Mountains
of North America

M) At the End of the
Paleozoic Era -
90% of Marine Life died
70% of Land Life died.

N) Cause - Low Sea Levels,
Climate, Glaciers began
moving over Land
* Pangaea formed *

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I Middle Earth History

- a. Mesozoic Era - means "Middle Era of Earth's life"
- b. In the beginning of the Mesozoic Era - Pangaea Existed - All Continents Were Joined

P. 408. c. Pangaea then Separated into 2 Land masses Named

Fig. 20

- 1. Gondawana land
- 2. Laurasia

d. as time Passed - these 2 Landmasses Separated into the Earth's continents as we know them today

II. Species of Life

- * a. Dinosaurs Appeared
- b. other species that survived the Mass Extinction From the Paleozoic Era Adapted - And survived into the (Evolution) Mesozoic Era

c. Mesozoic was a very Dry climate

d. Reptiles had skin that helped Retain Fluid for survival

e. First Shelled eggs of Reptiles

f. Dinosaurs Ranged From 1 meter in size to Huge.

g. During this time - Some Dinosaurs became extinct while other New species evolved.

III Dinosaurs

- a. Fossil Prints help Paleontologists calculate how fast Dinosaurs moved
- b. Present Day Reptiles are cold-blooded
 - ★ some Dinosaurs were thought to be Warm Blooded mammals
- c. Cold blooded Animal Bones show Rings in them - Like Tree Rings
- d. Warm blooded Animal Bones do Not show Rings - Scientists thought some were mammals.
- e. Making some Dinosaurs like Present Day Birds + Mammals
- f. C-T Period = Cretaceous - Jurassic Period

IV. BIRDS -

Mesozoic ERA

- a. appeared During the Jurassic Period
- b. Paleontologists believe birds evolved from small, meat eating Dinosaurs

V Mammals - Mesozoic ERA

- a. Triassic Period
- b. Small creatures like mice
- c. Hair covered bodies
- d. Warm Blooded, Vertebrates

VI Gymnosperms

- a) Plants that produce seeds - No Flowers
- b.) still exist like Pine Trees ! Ginko Trees

VII Angiosperms

- a. Flowering Plants
- b. Produced seeds w/ hard shells
- * c. Are the most Abundant Land Plants today
- d. Evolved in the Cretaceous Period -
- e. Examples of evolved are Oak Trees ! Maple Trees.

VIII. Mesozoic Era Ends

- a. This Era was between 248 m.y.a and 65 M.y.a.
- b. Groups of Animals ! Dinosaurs disappeared suddenly
- c. Major extinction of land ! marine animals were gone
- d. Paleontologists thought a comet or Asteroid hit Earth.
- e. Dust ! smoke clouded the air, Blocked the Sun Plants/ Animals Died
- f. It is thought Present Day Plants ! Animals have Evolved from the ones that survived the Mass extinction.