

# EARTH'S STRUCTURE AND SYSTEMS

Study guide, definitions, notes

## EARTH

- Our experience with Earth is limited to its surface.
- Earth is characterized by:
  - a. internally generated magnetic field
  - b. layered interior
  - c. gaseous envelope

## CHARACTERISTICS ABOUT EARTH'S STRUCTURE

- Earth has dipole magnetic fields that deflects solar wind and protects earth's surface from solar radiation.
- Earth has a stratified atmosphere (nitrogen, oxygen)
- Earth is made up of minerals, glass, fluids, and volatiles.
- Earth has three layers:
  - a. thin silicate crust
  - b. thick iron and magnesium silicate mantle
  - c. thick metallic core
- Earth can be divided into a rigid outer lithosphere and a plastic or ductile asthenosphere.

## EARTH'S MAGNETIC FIELD

- Earth's magnetic field is produced by geodynamo which flows in the liquid iron outer core of the Earth.
- It grows stronger as separating distance increases.

## VAN ALLEN BELTS

- These are two belts in the inner magnetic field where high energy cosmic rays are trapped.
- These belts protect us from solar radiation.

# Earth Systems Science Study Guide Answers

**Barbara W. Murck, Brian J. Skinner**



## **Earth Systems Science Study Guide Answers:**

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