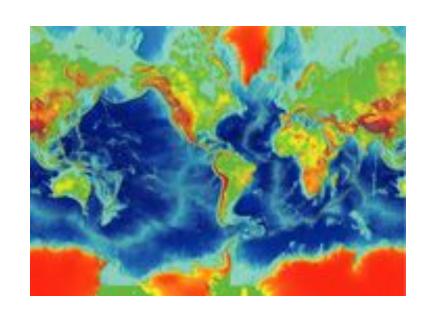
GEOLOGY

- Greek word Combination of two words
- Geo Earth and Logy Science
- Branch of science which deals with the study of earth, with regards to its origin, history, structure and composition





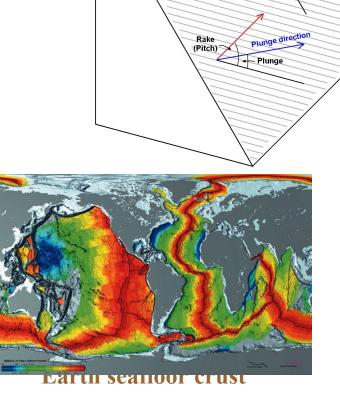
Branches of Geology

• Physical Geology – Deals with the physical forces and processes that bring change in the crust on account of their prolonged existence

and action

• Structural Geology – Deals with the study of Arrangement of rocks on the earth

• Geomorphology – Deals with the Description, explanation and Classification of the relief features of landforms of the earth



• Mineralogy – Deals with the study of Minerals which include the processes of mineral origin and formation, classification of minerals, their geographical distribution, as well as their utilization

 Petrology – Deals with Study of rocks with Regards to its origin, Mode of occurrence, **Composition and** Classification



Granite



Limestone



Quartzite



Octohedral shape of Diamond



Basalt



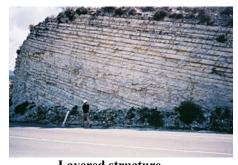




Sedimentary formation



 Stratigraphy – Deals with the study of rocks to understand various events of geological history



Layered structure



Identifying stratas based on fossils

•Paleontology - Deals with remains of animals and plants of past ages

preserved in rocks

• Economic Geology – Deals with minerals having

economic importance



Open pit copper mine in the world



Extracting fossils from rocks

- Engineering Geology Study of properties of soil building conditions in a given geological environment for different engineering projects
- Geophysics Application of physics and mathematics
- Geochemistry Application of chemistry
 Environmental Geology -Like <u>hydrogeology</u>ike hydrogeology, is a
- multidisciplinary field of applied science and is closely related to engineering geology ike hydrogeology, is a multidisciplinary field of applied science and is closely related to engineering geology and somewhat related to environmental geographyike hydrogeology, is a multidisciplinary field of applied science and is closely related to engineering geology and somewhat related to environmental geography. They all involve the study of the interaction of humans with the geologicike hydrogeology, is a multidisciplinary field of applied science and is closely related to engineering geology and somewhat related to environmental geography. They all involve the study of the interaction of humans with the geologic environment including the biosphereike hydrogeology, is a multidisciplinary field of applied science and is closely related to engineering geology and somewhat related to environmental geography. They all involve the study of the interaction of humans with the geologic environment including the biosphere, the <u>lithosphere</u>ike hydrogeology, is a multidisciplinary field of applied science and is closely related to engineering geology and somewhat related to environmental geography. They all involve the study of the interaction of humans

Relationship To Other Sciences

- Related to Chemistry, Physics, Botany and Zoology
- Botany and Zoology Tells us about plants and animals found on the earth - Geology tells whether they existed always or earth has supported animals or plants
- Physics Forces now at work on eath (climate, tides, currents, rivers etc.) Geology tells us whether any change in these forces in the past
- Chemistry Indicates chemical composition of various rocks and minerals