

EARTH SCIENCE

INTRODUCTION

COMPONENTS OF STUDY

- Geology: Both physical & historical Meteorology: Weather & climate

- Overanegraphy: The occurs
 Astronomy: What is external to the streosphere
- THE FOUR SPHERES (See The Water Cycle)
 - Litthosphone: The solid earth
 - Hydrosphere: The board curts
 - Atmosphere: The garcous curth Biosphere: Where life exists

CONCERNS IN OUR PHYSICAL ENVIRONMENT

- Reservoire: Water, soil, metallic & non-metallic elemornts, sundight, word, etc.
- 2. Per-capita use of metallic and non-metallic elements in \$1 tones per year.
- Renovable via non-nenovable resources
- Environmental and population problems.

MINERALS

- A industrial is a nationally occurring, inorganic, solid motorial with a definite atomic structure.
- As one is a useful metallic mineral.

Absent and Farees

- L. Atton, in specient Greek, necess "so-cut," i.e., the Ancients believed the atom to be the smallest partiother off manthem.
- Atoms are composed of neutrons, protons and electrons.
- a. Atomic number: Number of protons in nucleus Atomic weight: Average weight of an atom
- Isotope: Forms of an element with identical atomic numbers, but different numbers of neu-
- trons in the mackeus. Forces: Strong, weak, electromagnetic and gravity
- Properties of Missensis
- 1. Luster: Appearance or quality of light from surface
- Color: Nature of light and cause of color
- Stocak: Color of material in powdored form
- 4. Hardress: Mob's Scale (See Figure below)
- Scratch Test: Higher mumbered materials can scratch lower numbered metorials.
- 5. Shape is determined by clemage, crystal form and

4. Supercities Committee

- The ratio of the weight of a minoral to the weight of an equal volume of water
- Density of water type/con3-type/od.
 - k.e. hold = 2.7, alluminum = 2.7, enmisse = 22

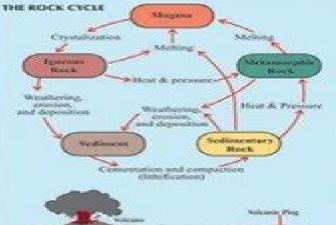
MOH'S SCALE		NEWWOOL
Manhot	100	Doorwood
	9	Cortondon
	186	- Support
	25	Quarter
	100	- Pelidipar
	15.	Appelier
		Howette
	1 34	Calvate
	12	Cuprouts
Seelboost		Table -

- Cl. Milesprad Correspo.
 - I. Silicates: Minerals with silicone and oxygen a. Sillionn is a semi-original which forms a pyramid
 - shaped structure with oxygen. Other forms include single setsahedrons (elivines, chains (augite), sheets (micas), 3-D structures effections and quantity
 - Name Stilligation
 - Make up one-fourth of continental crust
 - Carbonates: Minerals with earlien and expensionlessing calcite, from which we procure funcstone (results) and marble (decorative ulabs)

 Oxides: Oxygen based soluls, i.e., see
 solfides (St. sulfates (SO4), balides (CL, F)

 - Halling: Managed forms of safe
 - Corporate: Planter, extenses
 - Native metals: Iron, zinc, gold, silver, nickel

ROCK TYPES



EGNEOUS ROCKS

- Extrasive igneous rocks are formed in volcanic eruptions manufacture.
- Betrusive (or plutonic) igneous rocks are prodoced within

Officer of participation

- 3. Magneton Consists mainly of alliante materials.

 - b. Has genece, each in water viewer c. Originates from as deep as 200 km d. Differs in rate of cooling, chemical composition, and arrespond of paymen.
- e. Produces intrusive (plumonic) igneous rocks

4. Same

- endac to magmo
- Most gaseous cloments have escaped
- e. Produces extrasive (volcanie) ignoras rocks

- 1. Crystallication (intered pottors of ions):
- The rate of cooling strongly affects crystal stee b. alose cooling " large crystal
- quick cooling small crystals
 Asserpheus (unordered pattern of iona):
 - a occurs with imitant cooling (quenching) b. produces rocks referred to an glass

C. Chemisting Igneous Stocks

- 1. By texture, size and arrangement of interlocking crystals. a. Cons-ovalmed
 - s. form at surface or within upper court. is, openings left by gas builthfus are called senselys b. coarse-grained - formed doop within the interior
 - porphyritite large crystals infledded in matrix of smaller crystals
 - 2. By mineral composition
 - Depends on composition of magma and cooling
 - Some mageria can execute micks of varying minural content. As mageria cools, cortain minerals crystallises first (at

MITAMORPHIC BOCKS

- Metamorphic: To change form Regional roctomorphism: Material under intense messes, high temperatures
- Contact (thermal) metamocphism
- Changes caused by graviously to magna Low grade metamorphism Shale
- High grade metamorphism: Femily
- Often form during meastain building:
- Most metamorphic socks are harder than
- acdimentary nocks.
 Metamorphism changes texture
- Low-grade metamorphism makes more-
- cial more compact, more dense 16 Fediated texture: Particles of material be unto hime with one another

D. Agents of Metamorphisms

- I. Blicott
 - studed important apont.
 - b. provides energy for observed reactions.
- For example: clay necrystallines into a seineral at great temperature
- 2. Proposite
- 3. Chemical Activity: Most common
- C. Types of Metamocoldic Rocks
 - Blornfels: Fine grained, dark fliety rock
 - with randomly arranged minerals. 2. State: Fine grained, others gray, foliated
 - rock split easily along cleavage, planes of roca fishes aligned by pressure 3. Marble: Granular or sugary-tectured
 - rock formal from livear
 - Phylline Solly, foliated rock more centricly grained than date
 School Foliated took, more converly grained and of higher metamorphic
 - yade than Phylline n Gnetse: Followed, bunded rock of the
- highest metamorphic grade 7. Quartelte: Very hard, granular quarte

BOWEN'S REACTION SERIES.

If a minoral, which has already formed, remains in the macros, it will react with the remaining magma to produce the next mineral in the sequence. For example, whitese forms first: officing their reacts with remoting marginus for Alexen provinces

- A. Right Side of the Bowen Series. Calcium rich purts of the magmo form small crystals of feldspar.
 - 2. These react with sodium in the magnin to become more and more sedium rich.

- 19. Blad of Cooling: When everything is almost cook, remaining magnes will have high silicone con-
- sons, and quarte will form 2. When cooling is complete, everythin that cooled at the same time will usualby he close to one another (Addigue, retical and quarte cool near one another



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Minjie Lin

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