

EARTH SCIENCE

INTRODUCTION

COMPONENTS OF STUDY

1. Geology: Both physical & historical
2. Meteorology: Weather & climate
3. Oceanography: The oceans
4. Astronomy: What is external to the atmosphere

THE FOUR SCHEMAS (See The Water Cycle)

1. Lithosphere: The solid earth.
2. Hydrosphere: The liquid earth.
3. Atmosphere: The gaseous earth.
4. Biosphere: Where life exists.

CONCERNS IN OUR PHYSICAL ENVIRONMENT

1. Resources: Water, soil, metallic & non-metallic elements, sunlight, wind, etc.
2. Per-capita use of metallic and non-metallic elements is 11 tons per year
3. Renewable vs. non-renewable resources
4. Environmental and population problems

MINERALS

- A mineral is a naturally occurring, inorganic, solid material with a definite atomic structure.

Dr. J. J. Thompson, President, 1900-1901

1. **Atom**, in ancient Greek means "no-cut," i.e., the Ancients believed that atoms to be the smallest particle of matter.
2. **Atoms** are composed of neutrons, protons and electrons.
 - a. **Atomic number**: Number of protons in nucleus.
 - b. **Atomic weight**: Average weight of an atom.
 - c. **Isotopes**: Forms of an element with identical atomic number but different numbers of neutrons in the nucleus.

III. Properties of Minerals

1. Luster: Appearance or quality of light from surface
2. Color: Nature of light and cause of color
3. Streak: Color of material in powdered form
4. Hardness: Moh's Scale (See Figure below)
5. Scratch Test: Harder materials can scratch lower numbered materials.
6. Shape is determined by cleavage, crystal form and fracture.

4. **Specific Gravity:**
- The ratio of the weight of a mineral to the weight of an equal volume of water
 - Density of water = 1 gm/cm³ = 1 gm/ml.
i.e., gold = 19.3, aluminium = 2.7, porcelain = 2.2

100

MOM'S SCALE		NON-CRUIAL
Standard	10	Shamrock
	9	Cardinal
	8	Tepee
	7	Quartz
	6	Polka-dot
	5	Apricot
	4	Flamingo
	3	Galaxy
	2	Cosmos
Seaford	1	Rail

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1. Silicates: Minerals with silicon and oxygen.
 - a. Silicon is a semi-metal which forms a pyramid-shaped structure with oxygen.
 - b. Other forms include single tetrahedrons (silicates), chains (single), sheets (micas), 3-D structures (feldspar and quartz).
2. Non-Silicates:
 - a. Make up one-fourth of continental crust.
 - b. Carbonates: Minerals with carbon and oxygen including calcite, from which we produce limestone (rocks) and marble (decorative slabs).
 - c. Oxides: Oxygen bonded solids, i.e., ice.
 - d. Sulfides (FeS, sulfates (FeSO₄), halides (NaCl, F).
 - e. Native: Natural form of an element.
 - f. Gypsum: Plaster, calcium.
 - g. Native metals: Iron, zinc, gold, silver, nickel.

ROCK TYPES

THE RIVER CYCLE

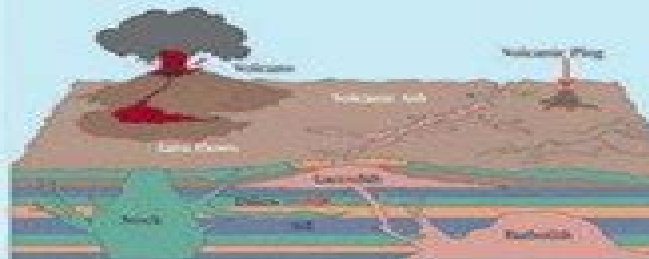
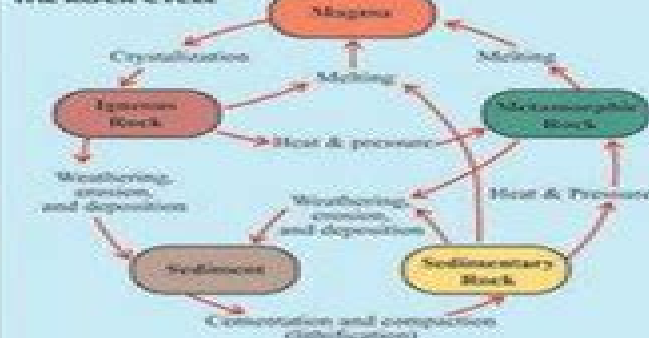


FIG. 5. (continued)

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1. **Extrusive** igneous rocks are formed in volcanic eruptions at surface.
2. **Intrusive** (or **plutonic**) igneous rocks are produced within the earth.
3. **Magma**
 - a. Consists mainly of silicate materials.
 - b. Has gases, such as water vapor.
 - c. Originates from as deep as 290 km.
 - d. Differs in rate of cooling, chemical composition, and amount of gases.
 - e. Produces intrusive (plutonic) igneous rocks.
4. **Lava**
 - a. Similar to magma.
 - b. Most gaseous elements have escaped.
 - c. Produces extrusive (volcanic) igneous rocks.

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- 1. **Crystallization** (ordered pattern of ions)
 - a. the rate of cooling strongly affects crystal size
 - b. slow cooling = large crystals
 - c. quick cooling = small crystals
- 2. **Amorphous** (unordered pattern of ions)
 - a. occurs with instant cooling (quenching)
 - b. produces rocks referred to as glass

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1. By texture, size and arrangement of interlocking crystals.
 - a. **fine-grained**
 - i. forms at surface or within upper crust.
 - ii. **ophitic** - left by gas bubbles and trails of vesicles.
 - b. **coarse-grained** - formed deep within the mantle.
 - c. **porphyritic** - large crystals embedded in matrix of smaller crystals.
2. By mineral composition.
 - a. Depends on composition of magma and cooling.
 - b. Some magma can create rocks of varying mineral content.
 - c. As magma cools, certain minerals crystallize first (e.g. basalt, granite).

ANALYTICAL PROCEDURES

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. **Metamorphic:** To change form.
2. **Regional metamorphism:** Material under intense stresses, high temperatures.
3. **Contact (thermal) metamorphism:** Changes caused by proximity to magma.
4. **Low grade metamorphism:** Shale becomes slate.
5. **High grade metamorphism:** Gneiss becomes rock.
6. **Often forms during mountain building.**
7. **Many metamorphic rocks are harder than sedimentary rocks.**
8. **Metamorphism changes texture.**
9. **Low-grade metamorphism makes material more compact, more dense.**
10. **Foliated texture:** Particles of material are brought into line with one another.

III. Aggregates and Well-posedness

1. **Heat**
 - a. most important agent
 - b. provides energy for chemical reactions
 - c. For example: clay pottery shatters into a million at great temperature
2. **Pressure**
3. **Chemical Activity:** Most common chemical agent in water

C. Types of Metamorphic Rocks

1. **Hornfels:** Fine grained, dark bluish rock with randomly arranged minerals
2. **Slate:** Fine grained, often gray, foliated rock, split easily along cleavage, planes of mineral weakness, aligned by pressure
3. **Micaschist:** Coarse-grained, foliated rock, formed from hornfelsite
4. **Phyllite:** Gneiss, foliated rock, more coarsely grained than slate
5. **Schist:** Foliated rock, more coarsely grained and of higher metamorphic grade than phyllite
6. **Gneiss:** Foliated, banded rock of the highest metamorphic grade
7. **Quartzite:** Very hard granular quartz rock, formed from sandstone

RECONSTRUCTING RESEARCHER SUBJECTS

If a mineral, which has already formed, remains in the magma, it will react with the remaining magma to produce the next mineral in the sequence. For example, silicic forms first; silicic then reacts with remaining magma to form monzonic.

18. *Deborah K. Miller and John H. Thompson, "Rural America"*

1. Calcium, with parts of the magnesia, forms small crystals of kirkcaldite.
2. Their react with sodium in the magnesia as barium oxide and more sodium chloride.

Fig. 3. *Phragmites* and *Spartina* coverages.

1. When everything is almost cool, combine the mangoes with heavy cream, whipped cream, and sugar with care.
2. When cooling is complete, everything that cooled in the same time will stand by the side of the other southern delicacies, which and guests could start the meeting in the evening.



High School Earth Science Proficiency Study Guide

Y Pai



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