

Volcanism

- Why do eruptions act the way they do?
- One billion people live near volcanoes
- Three different types of rocks: sedimentary, igneous, and metamorphic

Principles of Volcanism

- Igneous rocks: melted by heat (2 rocks plutonic and volcanic, outside of the earth)
- **Pyroclasts**: rocks that have been pulverised by lava ; fragmented volcanic rock ejected upwards explosively ex: ash
- Volcanic rocks- lava and pyroclasts
- Mount saint helens- erupted in 1980
- **Magma**- molten rock inside earth (in a magma chamber under earth)
- **Lava**- magma that reaches the surface
- Pumice- only rock that floats (less then the density of water)
- obsidian - rock that comes out so fast from volcano it becomes glass (black)
- Once it starts to cool down the lava will slow down
- DORMANT= volcano thats alive but not active
- VOLCANOES ABOVE SUBDUCTION ZONES!!!!

Characteristics of Magmas

1. Composition

- silica: minerals with Si and O
- Mafic- 50% silica and Mg, Fe | ex: basalts (dark, dense rocks)
- Felsic- 70% silica and quartz, feldspar, high amount of gasses | ex: rhyolites (light, less dense rocks)
- Intermediate- 60% silica (most common on land) ex: andesites (most in andes mountains, chile)



2. Viscosity

- Resistance to flow, something with high viscosity does not want to move, its lazy
- What controls the flow? Controlled by silica content and temp

Volcanism Study Guide

**California. Division of Mines and
Geology**



Volcanism Study Guide:

Study Guide for Physical Geology, Geo 1001 (T451-W485) Robert Evan Sloan, E. C. Alexander (Jr.), 1985 Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1977 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index **Readers' Guide to Periodical Literature**, 1915 **Understanding Earth** John Grotzinger, Thomas H. Jordan, 2010 Chapter by chapter help for studying and exam review with lots of support for working with the book's media resources **A Field Guide to the Volcanic Rocks of the Massif Central** Richard E. Bevins, 1986 MAX Teaching with Reading and Writing Mark A. Forget, 2007-05-23 Research proven activities that engage students in active processing of new information leading to deeper understanding long term retention of subject matter and acquisition of life long learning skills **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress, 1968 *The A. P. Environmental Science* Michael Lopatka, 2002-07 *Corsican Geology* Wes Gibbons, Jana Horák, 1985 *Instructors Resource Manual* Robert W. Christopherson, 2003 *Patterson's Source Guide for Educational Materials and Equipment*, 1962 **Merrill Earth Science** Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 **Introduction to the Biology of Marine Life** James L. Sumich, John Francis Morrissey, 2004 This textbook examines selected groups of marine organisms within a framework of basic biological principles and processes With attention to taxonomic evolutionary ecological behavioral and physiological aspects of biological study the book contains chapters on habitat patterns of association phytoplankton marine plants protozoans and inv Monthly Catalogue, United States Public Documents, 1994-12 **Biology/science Materials** Carolina Biological Supply Company, 1991 Films and Other Materials for Projection Library of Congress, 1978 **Video Source Book**, 2006 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction **Reader's Guide to Periodical Literature Supplement**, 1915 These vols contain the same material as the early vols of Social sciences humanities index **Earth Science**, 1987 California Geology California. Division of Mines and Geology, 2000

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