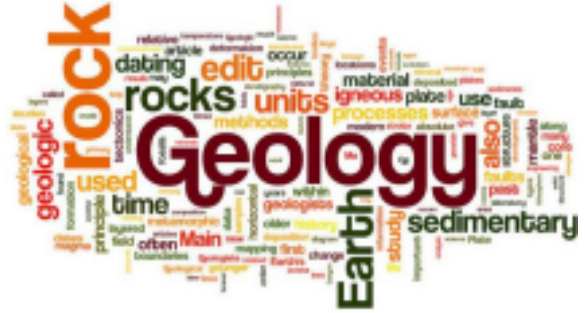


# GEOLOGY



## OVERVIEW

- Geology is the science that studies the Earth's physical structure and substances, the history of rocks, the processes that act on them and the most economical way to use the world's resources.
- Geology involves methods and knowledge from biology, chemistry, physics and mathematics.
- Guest speakers: Seismologists, Volcanologists, Environmental Geologists, Structural Geologists, Hydrologists, Remediation and Energy Specialists
- College preparatory science course that fulfills the a-g requirement for the UC system.



## CAREERS

- Possible career paths for geologists: academia, government (USGS), environmental consulting, water, oil energy and gas industry, mining and mineral resources.
- Geologists work outdoors a lot as well as in the laboratory. Depending on their interests and projects, they might travel regularly around the world.

## PROJECTS

- PBL - Where is your dream home?
- Tectonics in the Neighborhood
- Volcanoes – Why Should I care?
- Projects of Concern
- ENERGY - Where do we get it?
- Superfund Sites - in Irvine?
- Human Impacts and more!

## POSSIBLE FIELD TRIPS

- Geocaching Activities: Dana Point Headlands and Cliffs, Aliso Beach, Crystal Cove
- Fall and/or Spring camping trips: Rainbow Basin, Death Valley, Grand Canyon, or Zion



**Time commitment** - all assignments and projects are completed in class.

**MORE LINKS FOR RESOURCES / CAREERS IN GEOLOGY:** [www.bit.ly/NHSgeologylinks](http://www.bit.ly/NHSgeologylinks)