

# Rocks and Minerals 2012

## Format

The event will be stations, each containing questions that may be multiple choice and/or short answer. Teams will be given a stated time period at each station. Each team is allowed a magnifying glass, a book and a binder. Students may handle the specimens unless instructed otherwise. The binder and book should well organized to quickly access information.

## Minerals

- Color
- Crystal form, structure and symmetry
- Hardness
- Group
- Composition and notable trace elements
- Streak
- Luster
- Cleavage
- Fracture
- Specific gravity
- Uses by people

## Rocks

Made of minerals

### Igneous

- Intrusive or extrusive
- Minerals present
- Crystal size, distribution, and orientation
- Bowen's reaction series

### Sedimentary

- Clastic or organic
- Minerals present
- Grain size, distribution, and orientation
- Clues they offer to ancient environments

### Metamorphic

- Parent rock
- Minerals present
- Orientation of mineral crystals
- Foliation
- Level of metamorphism

## Geology

Understanding of general geologic principals and functions, as well as the ability to interpret geologic maps and relate them to ancient events