

## ROCK HOUND

**Description:** Identify rocks and minerals using a rock identification and information chart made by the team, and answer questions relating to rock formation.

**Number of Participants:** 2

**What to Bring:**

1. Both team members are required to wear goggles. These must be brought with you and worn during the event. If you forget them, you must get them and therefore have less time for the event.
2. A team may bring an 8.5" x 11" data chart to assist in the testing process. No pictures or illustrations are allowed on such a chart.

**Competition:**

**Part 1: Rock and Mineral Identification**

1. The team will have 20 minutes to identify as many rocks and minerals as possible from a group which can include but is not limited to, the following: basalt, bituminous, coal, conglomerate, genesis, slate, granite, limestone, marble, obsidian, fluorite, pumice, quartzite, sandstone, halite, pyrite, schist (garnet), scoria, shale, calcite, copper, galena, graphite, feldspar, gypsum, hematite, kaolinite, mica, talc, quartz, sandstone.
2. Each team receives one small dropper bottle with a very limited amount of acid. If excessive amounts are used on rocks, and the team runs out, the team receives no additional acid.
3. Items for testing hardness, scratch, etc., will be provided.
4. Points will be given for each correct answer.

**Part 2: Multiple Choice Test on Rocks and Minerals**

1. The team will have 25 minutes to answer multiple-choice questions.
2. The teams should know the basic vocabulary used in studying and identifying rocks.
3. The team will be responsible for answering questions on types of rocks and subcategories, how rocks are formed, the rock cycle, properties of the rocks mentioned in Part 1, rock identification tests and how they are performed, and landforms.

**Scoring:** Teams with the most points will be ranked highest.

**Tie Breaker:** In the event of a tie, the tiebreaker will be based on the correct answer to specified questions in Part 2.