

Rock Star

1. **DESCRIPTION:** Teams will demonstrate their knowledge of rocks & minerals, the rock cycle and geologic maps.
2. **ESSENTIAL STANDARDS ALIGNMENT:** 3.E.2, 4.P.2
3. **TEAM OF UP TO:** 2
4. **MAXIMUM TIME:** 60 min.
5. **TEAMS:** Must bring writing instruments. Teams may bring 2 hand lenses and one 3-ring 1” binder containing information in any form from any source. The materials must be 3-hole punched and inserted onto the rings (sheet protectors are allowed). No actual samples may be used in the binder, but photographs and drawings are allowed.
6. **EVENT LEADERS:** Will provide a hands-on event with all necessary items, objects, materials, questions, and response sheets for participants to complete stations.
7. **SAFETY REQUIREMENTS:** Following the handling of rocks and minerals, students should wash their hands.
8. **IMPOUND:** No
9. **THE COMPETITION:** This event will be run in a station format. Teams will rotate through stations that assess any or all of the following topics:
 - a. Identification of specimens from the Official Rocks & Minerals List
 - b. Classification of rocks and minerals by their properties
 - c. Information about specimens on the list including, areas of origin, uses and economic importance
 - d. Parts and processes of the Rock Cycle
 - e. Being able to read a geologic map to find information about rocks and minerals in NC
10. **SCORING:**
Points will be awarded for the accuracy of responses. Ties will be broken by the accuracy or quality of responses to pre-selected questions chosen by the event leader.
11. **EVENT RESOURCES:**
<http://www.sciencenc.com/event-help/RockStar.php>
 Request a North Carolina Rock and Mineral Kit at <http://mrl.ies.ncsu.edu/mrl-outreach.html>

Official Rocks & Minerals List

Rocks:

Basalt	Phyllite
Bituminous coal	Pumice
Conglomerate	Quartzite
Gneiss	Sandstone
Granite	Scoria
Limestone (fossil)	Shale
Marble	Slate
Obsidian	

Minerals:

Calcite	Hematite
Copper	Mica-Biotite
Feldspar (pink)	Olivine
Fluorite	Pyrite
Galena	Kaolinite
Graphite	Quartz (crystal)
Gypsum	Talc
Halite	