

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.E.2, 4.P.2
3. **TEAM OF UP TO:** 2
4. **MAXIMUM TIME:** 50 min.
5. **TEAMS:** Must bring writing instruments. Teams may also bring up to 2 commercially produced field guides and/or 2 1-inch, 3-ring binders with pages in any form, from any source, contained in page protectors. (This means 2 guides, or 2 binders, or a guide and a binder). Actual samples are not allowed in the binders. Teams may also bring up to two hand lenses.
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. The ability 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:**
See the Event Resources tab on our website at www.sciencenc.com for instructions, videos and more.

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	