



North Rim Outreach 2013-2014

NORTH RIM FIELD TRIPS: SEPTEMBER 30 TO OCTOBER 4, 2013

Registration begins August 21, 2013 at 7 am. These free programs will include a fee waiver as part of the orientation materials. Trips take place at the North Rim of Grand Canyon, and may include walking up to 2.5 miles on and off trails and uneven terrain. Programs are limited to a maximum of 35 students and require an exact student to chaperone ratio of 5:1. Staff can lead up to two groups of 35 simultaneously. Please fill out a separate registration form for each group of 35 students. Once complete please email registration to GRCAeducation@nps.gov or fax to 928-638-7691. Travel grants may be available to title one schools. See online for application details: www.nps.gov/grca/forteachers

Topic	Grade	Length	Description	Start Time	Topic
<i>Grand Canyon Rocks</i>	3 to 8	2.5 hrs	Focus on the rock layers and their depositional environments. Through hands-on activities, learn the geologic processes that formed Grand Canyon.	8 am AZ/ 9 am UT or 12 pm AZ/ 1pm UT	Geology
<i>Stories in Stone</i>	3 to 8	2.5 hrs	Using the eyes of a paleontologist, discover fossils preserved in the rocks of Grand Canyon. Through close observation of the 270 million-year old Kaibab Formation, students record the fossils they find and interpret the environment in which the animals lived.	8 am AZ/ 9 am UT or 12 pm AZ/ 1pm UT	Geology
<i>Life on the Edge</i>	3 to 8	5 hrs	Using their senses, students explore the forest and rim ecosystems of Grand Canyon. Activities, games, and journal entries help students learn plant and animal adaptations. Make wildlife observations, search for evidence of animals, and learn the role of National Parks in protecting wildlife and plants.	8 am AZ/ 9 am UT	Ecology
<i>Eco Explorers</i>	3 to 8	2.5 hrs	A shorter version of Life on the Edge for groups that would like a half- day program.	8 am AZ/ 9 am UT or 12 pm AZ/ 1pm UT	Ecology

RANGER-VISITS-TO-CLASSROOMS: FEBRUARY 18 TO 21, 2014

In-Classroom: One hour long, each limited to 35 students. Choose from the following topics:

- **Five Senses** (grades K-2): Students use their senses to connect to the natural world.
- **Geology** (grades 3-8): Activities focus on the rock cycle, plate tectonics, and geologic time.
- **Ecology** (grades 3-8): Emphasizes adaptations, ecological principles and plant and animal interrelationships.
- **Pioneer history** (grades 2-6): Artifacts, charades and games help students connect to Grand Canyon's history.
- **Archeology** (grades 2-8): Artifacts and games help students connect with Grand Canyon's ancient inhabitants.
- **Build-a-National Park** (grades 2-6): **requires 1½ - 2 hours**: Students use art supplies to construct their own model of a national park. Class provides art supplies.

Assemblies: One-hour long for up to 300 students. Rangers require 30-45 minutes for set-up.

- **National Treasures in Your Backyard**: Focuses on the role and importance of National Parks.
- **Endangered Species**: Introduces endangered species and what parks are doing to help them.

For more information, please visit our website: www.nps.gov/grca/forteachers or call 928-638-7931