Physical Geology

Outline

Unit 1: An Introduction to Geology
Unit 2: Minerals: Building Blocks of Rocks
Unit 3: Igneous Rocks
Unit 4: Volcanoes & Other Igneous Activity
Unit 5: Weathering & Soils
Unit 6: Sedimentary Rocks
Unit 7: Metamorphic Rocks
Unit 8: Topographic Maps & Aerial Photographs
Unit 9: Earthquakes & Earth's Interior
Unit 10: Plate Tectonics
Unit 11: Mountain Building
Unit 12: Geologic Time
Unit 13: Earth History & Fossils
Unit 14: Geologic History of New York State

Labs

Observing and Measuring Earth Materials and Processes
Plate Tectonics
Mineral identification
Rock-Forming Processes and the Rock Cycle
Igneous Rocks and Volcanic Hazards
Sedimentary Rocks, Processes and Environments
Metamorphic Rocks, Processes, and Resources
Topographic Maps and Aerial Photographs
Earthquake Hazards and Human Risks
Geologic Structures, Maps and Block Diagrams
Dating of Rocks, Fossils and Geologic Events

Field Study (subject to change)

The Big Picture: Chimney Mountain, the Hudson River Ice Meadows
Kimball Corners, Rock City Falls, Lester Park, Geyser Road Sand Deposits
John Boyd Thacher Park and Nature Center
The Saratoga Springs, Stark's Knob, Moreau Lake, Adirondack Faults and Structures
Mohawk Valley Fossils: Canajoharie Potholes, Nowadaga, etc.
Natural Stone Bridge and Caves
Batchelorville Bridge pegmatites