

TEMPLATE FOR CMAP PROJECT
By Laura Reed
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Name: Laura Reed
Class: Moab 2007
Project Title: Moab Quality Soil Report

Project Description	The Moab Quality Soil Report will utilize freshman Earth Science students to collect and analyze soil data in and around the community of Moab, Utah, monitor changes and publish data to web page.
Community Issue or Problem Selected -How project evolved?	<ul style="list-style-type: none"> • To analyze soil quality in and around Moab community • To monitor changes in soil quality over time
Community Partner(s)	<ul style="list-style-type: none"> • BLM • NPS • Grand County
Project Objectives	<p>Students will</p> <ul style="list-style-type: none"> • explain the importance of soil • explain soil-forming factors • describe basic biological, physical, and chemical properties of soil • analyze soil fertility • publish data to web page • create data map using GIS
Utah Core Standards/Objectives	Standard 2: Students will understand that the features of Earth's evolving environment affect living systems Objective 2 Analyze how ecosystems differ from each other due to abiotic and biotic factors.
Essential Question(s) -Spatial Issue	<ul style="list-style-type: none"> • Does soil quality vary in and around Moab? • Do soil quality factors effect vegetation type and patterns? • Does soil quality change over time?

Assessments (rubrics, scoring guides)	<p>Scoring Guides</p> <ul style="list-style-type: none"> • Field data collection • Data analysis and Interpretation • Soil Quality Report • Project Board • ArcGIS Map
Project Products	<ul style="list-style-type: none"> • Publish Moab Quality Soil Report including ArcGIS 9 map of soil types and distribution, analysis and interpretation of data • Web page (collection and publication of data – yearly) • Science Project Board
Project Timeline (include a step by step Procedures)	Student projects and web page to be completed November 2007
Resources Needed	<ul style="list-style-type: none"> • GIS software • GPS • Soil testing supplies • Transportation • Digital Cameras
Skills Required	<ul style="list-style-type: none"> • Use of GPS and GIS software • Web page design • Science data collection and analysis
Project Team Member Roles	<p>Teacher(s): Laura Reed</p> <p>Students: Freshman Earth Science</p> <p>Partner(s): Canyonlands National Park, Grand County, Bureau of Land Management</p>
Celebration/Presentation	Presentation of Reports and Project Boards
Project Evaluation	Student Evaluations
Project Bibliography	
Plans for Future CMAP Activities	Watershed Science, Water Quality, Desert Biodiversity