

## TEMPLATE FOR CMap PROJECT

**Project Title: Monitoring Farm Creek**     By Karl Niebergall and Keith Morris

Project Description	Monitoring Farm Creek, part of the Neola Fire burn area of 2007. In cooperation with Ashley National Forest Service officials and Uintah and Ouray Indian Reservation officials to identify plant growth and renewal each year.
Community Issue or Problem Selected -How project evolved?	The Neola Fire was one of the most significant events to impact the Uintah Basin in the past decade. A year later people still talk about the fire as though it happened just yesterday. Therefore, we thought the students would take a more vested interest in this project.
Community Partner(s)	Ashley National Forest Service officials and Uintah and Ouray Indian Reservation officials
Project Objectives	To identify plant growth and renewal each year following the Neola Fire of 2007. To show cases of weathering and erosion to the various landform types due to lack of vegetation. And to look for an increase in signs of animal life as the vegetation returns to its natural state.
Utah Core Standards/Objectives	Geography for Life Standard 2 Objective 1, Standard 3 Objective 1 & 2. Earth Systems Standard 2 Objective 2 & 3
Essential Question(s) -Spatial Issue	Beside the loss of vegetation, what are the effects of the burn to the Whiterocks area?
Assessments (rubrics, scoring guides)	Attached at the bottom.
Project Products	Students will gain a better understanding of how an ecosystem returns to its natural state. The students will work on a project with life lessons. An opportunity for students to work with professionals from the community. And the students will use technology in a useful real world situation.

<p>Project Timeline (include a step by step procedure)</p>	<table border="0"> <tr><td>Intro to GPS</td><td>1-30 min.</td></tr> <tr><td>Sample hands on GPS Project</td><td>1-30 min.</td></tr> <tr><td>Intro to Camera</td><td>1-30 min.</td></tr> <tr><td>Sample hands on Camera Project</td><td>1-30 min.</td></tr> <tr><td>Discussion on information gathering</td><td>1-30 min.</td></tr> <tr><td>Discussion on information Graphing</td><td>1-30 min.</td></tr> <tr><td>Community Partner Speaker</td><td>1-30 min.</td></tr> <tr><td>Fieldtrip to Whiterocks Burn Area</td><td>1- day</td></tr> <tr><td>Informal Class Discussion</td><td>1-30 min.</td></tr> <tr><td>Compile and Graph Collected Data</td><td>3-30 min.</td></tr> <tr><td>Formal Presentation to Officials</td><td>1-45 min.</td></tr> </table> <p style="text-align: center;">A five week period of time using the A/B schedule</p>	Intro to GPS	1-30 min.	Sample hands on GPS Project	1-30 min.	Intro to Camera	1-30 min.	Sample hands on Camera Project	1-30 min.	Discussion on information gathering	1-30 min.	Discussion on information Graphing	1-30 min.	Community Partner Speaker	1-30 min.	Fieldtrip to Whiterocks Burn Area	1- day	Informal Class Discussion	1-30 min.	Compile and Graph Collected Data	3-30 min.	Formal Presentation to Officials	1-45 min.
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<p>Resources Needed</p>	<p>Each group would need: One GPS, one digital camera, a clipboard with blank data forms for recording the data, a ruler, and a plant identification book.</p>																						
<p>Skills Required</p>	<p>Basic understanding of how to use a GPS and a digital camera. To be able to identify vegetation types, animal signs, and landforms. And finally, to be able to put this information into an organized format.</p>																						
<p>Project Team Member Roles</p>	<p><b>Teacher(s):</b> To make arrangements with the other organizations involved, to make transportation arrangements, to make sure each group is equipped, and to monitor student data collection.</p> <p><b>Students:</b> To accurately collect data and then create tables using the collected data.</p> <p><b>Partner(s):</b> To provide permission for students be in the area (if necessary), to make students aware of any additional information necessary, and to assist in the data collection.</p>																						
<p>Celebration/Presentation</p>	<p>Informal class discussions allowing each group an opportunity to share their findings with the rest of the class. Then at a later date the class will present the finished product to the local Forest Service and local Reservation officials.</p>																						
<p>Project Evaluation</p>	<p>Students will be assessed by a quiz, return of the GPS unit and the digital camera, proper recording of waypoints, participation in the class discussions, and the final presentation.</p>																						
<p>Project Bibliography</p>	<p><i>Karl and I do not know what to put here. We looked through binder and looked at the on-line projects for an example and found nothing. We did not use any resources or publications for this project. For good or bad this is our creation!</i></p>																						

Plans for Future CMap Activities	Yearly fieldtrips to the same location with a new group of students performing the same data collection tasks. Followed by a comparison of information from the previous year(s).
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Optional:

-Lesson Plans -- GPS Activities prior to the project

-Student Artifacts

-Publicity --- A newspaper article showing the students at work and then later showing the students presenting to the Forest Service and Reservation officials.

### CMap Neola Fire Rubric

	4	3	2	1	Points
GPS use	Accurately and correctly	Performs assigned task	Requires much teacher	Requires constant	

	collect waypoints	with little assistance	supervision	teacher supervision	
Digital Camera use	Demonstrates the correct use of the camera without help	Performs assigned task with little assistance	Requires much teacher supervision	Requires constant teacher supervision	
Data Collection Exercise	Demonstrates the correct procedure for collecting data	Performs assigned task with little assistance	Requires much teacher supervision	Requires constant teacher supervision	
Data Graphing Exercise	Demonstrates the correct procedure for graphing data	Performs assigned task with little assistance	Requires much teacher supervision	Requires constant teacher supervision	
Fieldtrip -- Group Cooperation	Performs assigned task as outlined	Requires some teacher supervision	Requires much teacher supervision	Requires constant teacher supervision	
Field Data Collection	Performs assigned task as outlined	Performs assigned task with little assistance	Requires much teacher supervision	Requires constant teacher supervision	
Participation in class discussion	Actively Involved	No comments but paying attention	No comments and not paying attention	Disinterested	
Compile and Graph Collected Data	Performs assigned task as outlined	Performs assigned task with little assistance	Requires much teacher supervision	Requires constant teacher supervision	
Presentation	Actively Involved in organizing and presenting the information	Involved in either organizing or presenting the information	Little involvement in the presentation	Not involved	
				TOTAL POINTS	