

TEMPLATE FOR CMAP PROJECT

Project Title: Community Mapping of trail system in and around Kanab

Created by: Travis Terry

Class: CMAP St. George 2017

Project Description	Kanab has many trail systems within walking distance from the local hotels and community. This project will map the trail systems in and around Kanab. Additionally, this project will use students to identify landmarks, vegetation, rock formations and imagery as a guide for visitors. Students will also create a story map of these trail systems.
Community Issue or Problem Selected -How project evolved?	Many visitors come to Kanab and this will provide a map guide of the trail systems in and near Kanab. There are already resources available showing maps in paper or electronic format, this will create a mapping overlay of the area and make it an interactive process for users and story map of Kanab trails.
Community Partner(s)	Kanab City BLM
Project Objectives	<ol style="list-style-type: none">1. Identify trails in and around Kanab2. Create waypoints and import into Garmin BaseCamp3. Create map in ArcGIS4. Create Story Map of trails including imagery of the trailheads, landmarks, etc on respective trails.5. Construct and analyze how the unique rock formations around Kanab came to be.

<p>Utah Core Standards/Objectives</p>	<p>Strand 7.2: CHANGES TO EARTH OVER TIME</p> <p>Standard 7.2.1 Develop a model of the rock cycle to describe the relationship between energy flow and matter cycling that create igneous, sedimentary, and metamorphic rocks. Emphasize the processes of melting, crystallization, weathering, deposition, sedimentation, and deformation, which act together to form minerals and rocks</p> <p>Other standards related to Social Studies and/or Language Arts, CTE</p>
<p>Essential Question(s)</p> <p>-Spatial Issue</p>	<p>How does the geological history of Kanab contribute to the trail systems.</p> <p>How does the vegetation adapt to survive in the desert</p>
<p>Assessments (rubrics, scoring guides)</p>	<p>100 Points total</p> <p>Construction of database of waypoints and points of interest--30 points</p> <p>Student group work assessment-group and self assessment--10 points from group and 10 points from self assessment</p> <p>Map project of assigned trailsystem--50 points</p>
<p>Project Products</p>	<p>Database of trail attributes</p> <p>Student write up of history of trails and geologic histories</p> <p>Story Map</p>
<p>Project Timeline</p> <p>(include a step by step Procedures)</p>	<p>-Train on GPS units</p> <ul style="list-style-type: none"> ● Waypoints ● Garmin BaseCamp <p>-Split classes into groups and assign specific trail</p> <p>-Class Lecture/discussion from BLM</p> <p>-Work with Utah History to construct histories of area</p> <p>--Possible guest lecture from Kanab City or community</p>

	<p>member familiar with the history of the Kanab area.</p> <ul style="list-style-type: none"> -Work with English to write about history of trails -Field trip to trail systems and walk trail marking waypoints, vegetation, rock formations, and take informative images to include in Story Map -Bring in waypoint and database into Garmin BaseCamp -Map waypoints -Create StoryMap
Resources Needed	<p>Garmin GPS PC with Garmin BaseCamp and ArcGIS Cameras or cell phones for imagery</p>
Skills Required	<p>No specific skills necessary, students will be trained on procedures and processes</p>
Project Team Member Roles	<p>Teacher(s):Science, Utah Studies, Language Arts</p> <p>Students:7th grade students</p> <p>Partner(s):Kanab City for historical and cooperative efforts with the existing trail systems</p>
Celebration/Presentation	<p>Students will present their maps in class and one will be selected to share with the travel council and city for review of future development.</p>
Project Evaluation	<p>Evaluation will be done using the rubrics for group presentations and group work. Grade breakdown is as follows:</p> <p>100 Points total</p> <p>Construction of database of waypoints and points of interest--30 points</p> <p>Student group work assessment-group and self assessment--10 points from group and 10 points from self assessment(rubric)</p> <p>Map project of assigned trailsystem--50 points</p>
Project Bibliography	<p>None</p>

Plans for Future CMAP
Activities

If project goes well, this project could be expanded to other trails in the area.