

Project Title: Water/Hydro-Electric Plant and Human/ Environment Interaction

Created by: Sonya Ogden

Class: CMAP, Richfield, UT 2017

Project Description	The students will learn the five themes of geography by applying the principles taught in their own community. The students will also learn coordinates in class and apply their knowledge using the GPS. They will explore the water plant and hydro-electric power plant. The students will also clean and tidy up the water plant. On the way to the water plant the students will also pick up garbage on the side of the road.
Community Issue or Problem Selected -How project evolved?	How is the water and power contained and distributed in order to provide for the residents and farmers of Monroe, Utah? I want students to understand human/environmental interaction and I feel that taking the water from the mountains and creating our "Little Green Valley" as Monroe is often called is a great way for students to understand this one part in the 5 themes of geography. I also want them to understand latitude and longitude and its purpose in our world beyond just the use of the GPS.

Community Partner(s)	-Devin Magleby-Public Works Director for Monroe City -8th grade students at South Sevier Middle School
Project Objectives	Students will be able to explain the five themes of geography as it relates to the development of Monroe, Utah. Students will understand human/environment interaction through a walking field trip to the water and power plant. Students will help beautify the community by picking up trash on roads as we walk to our two destinations. They will also understand how Monroe receives water and power. They will learn an appreciation for community as they help clean and tidy the water plant.
Utah Core Standards/Objectives	-Identify the five themes of geography; i.e., location, place, human-environmental interaction, movement, and region. -Apply the five themes of geography as they relate to the development of the United States. -Apply map and globe skills to the study of United States history; e.g., direction, legend, scale, grid coordinates.
Essential Question(s) -Spatial Issue	What are the 5 themes of geography? What is latitude and longitude and what purpose do they serve?

Assessments (rubrics, scoring guides)	Show the 5 themes of geography using ipad pics and coordinates in a story map.
Project Products	-Story Map -Clean roadside and water plant -Write paper
Project Timeline (include a step by step Procedures)	<ol style="list-style-type: none"> 1) Introduce the five themes of geography. 2) Show students five themes rap: YouTube video. 3) Students get in groups of 4 and take pics of each geography theme within Monroe and also mark these points with the GPS. 4) Students create a story map using the pictures and GPS markings 5) Visit the water and hydro-electric plant 6) Write paper on the human/environmental theme witnessed as these places were visited. 7) Share story maps in class
Resources Needed	-GPS -Garbage bags
Skills Required	-Operate a GPS

	-CMAP Program
Project Team Member Roles	<p>Teacher(s): Guide student instruction of 5 themes, grid coordinates, and coordinate field trip and community clean up</p> <p>Students: Show examples of five themes in Monroe through ipad pictures and explain each one. Students will learn grid coordinates and learn to use the GPS. Students will clean the water plant and on the sides of the road going to the water plant.</p> <p>Partner(s): Monroe City Water Master: Provide students with information on harnessing the mountain water to serve our community. Show students water plant and power plant (run by water). Explain the operations of both plants. Guide students in sweeping and tidying up the water plant.</p>
Celebration/Presentation	-Share story maps in class
Project Evaluation	<ul style="list-style-type: none"> -Story Map -Written paper
Project Bibliography	-Utah Core Standards: U.S. History 8th grade

Plans for Future CMAP Activities	Find coordinates for major cities we will discuss in U.S. History. Also ask students to find these places using Google Earth

Optional:

- Lesson Plans
- Student Artifacts
- Publicity