TEMPLATE FOR CMaP PROJECT

Project Title: "Rip Your Strip" Survey Created by: Quintin Heath, Lake Ridge Elementary, Granite District

Project Description	 "Rip Your Strip" survey: "Rip Your Strip" is a community project sponsored by the Utah Rivers Council that encourages people to remove the lawn between their sidewalk and street and replace it more native plants that will conserve water. Students will survey and map the neighborhood school boundary to see how many properties have strips and what percentage of those contain lawn. They will then calculate the amount of water that could be saved if people participated in the program and also distribute literature about the program. In small groups, the students will prepare multimedia presentations to share their findings. Further surveys could be done later in the year (or the next year) to see how many people took out their strips and calculate the actual water savings.
Community Issue or Problem Selected -How project evolved?	This project focuses on the larger issue of water conservation especially as it relates to our desert climate. It also provides a good way to incorporate various math concepts in our curriculum as well as helping the students to think geographically and how to apply basic mapping and GPS/GIS skills.
Community Partner(s)	 Utah Rivers Council Local water utility
Project Objectives	 Students will learn about the impact of water on human activities and discover the importance of water conservation in our desert region. Students will learn how to apply geographic and mathematical skills in answering the question of how much water the local community could save by participating in the "Rip Your Strip" program.
Utah Core Standards/Objectives	5 th Science 5:2 - (Survival advantages in given environment) - (Using science process and thinking skills 5 th Math 1:1,2,4 - (fractions, percentages, multiplication, volume, etc.)

	5:1 – (compare and analyze data using graphs, etc.) 5 th Social Studies 9:1 – (geographic features such as water and impact on settlement and industry)
Essential Question(s) -Spatial Issue	 Why do we need to save water in our area? How much water could be saved if all of the houses in our school boundary ripped their strip?
Assessments (rubrics, scoring guides)	Rubric of essential questions and other required maps, graphs, tables, etc.
Project Products	 Maps created with GIS showing survey data Pamphlets/powerpoints containing maps, graphs, tables , etc. showing survey data and possible water savings. Optional: Follow-up survey later in year showing changes.
Project Timeline (include a step by step Procedures)	week 1: Introduce concept, software, rubric, form teams, etc. week 2: Conduct survey, collect data, and distribute literature. week 3: Work on student products and share. future: Conduct follow-up survey if desired.
Resources Needed	 literature and info on "Rip Your Strip" program ArcGIS software and data set with plat map and street information If available: GPS unit(s) for mapping survey data
Skills Required	Basic computer skills, related math skills, and knowledge of GIS software and GPS systems.
Project Team Member Roles	Teacher(s): Demonstrate use of GIS/GPS, provide rubric and other background info and necessary support.
	Students: Conduct survey, distribute literature, and create finished products.
	Partner(s): Supply literature/information on program.
Celebration/Presentation	- Share student (group) products with each other and community partners.
Project Evaluation	- Obtain feedback from students and community partners.
Project Bibliography	http://www.ripyourstrip.com/

Plans for Future CMaP Activities	 Follow-up survey on the success of the initial "Rip Your Strip" survey and campaign. Water conservation and erosion issues relating to the school grounds.

Optional: -Lesson Plans -Student Artifacts -Publicity