

TEMPLATE FOR CMAP PROJECT

Project Title: Community Hiking /Biking Trails for Tremonton, UT

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Class: Box Elder July 2008

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| Project Description | <p>Develop a proposed route for a city wide Walking/Hiking/Biking Trail around the perimeter of Tremonton City. Propose a few alternative routes for consideration.</p> <p>Identify the various landowners that might be affected by the proposed routes.</p> <p>Survey the city residence on the level of interest and preferred route.</p> |
| Community Issue or Problem Selected -How project evolved? | <p>Community walking/hiking/biking trails</p> <p>Tremonton needs a walking trail that could circumscribe the community.</p> |
| Community Partner(s) | <p>Tremonton City Parks and Recreation IHC Box Elder School District</p> |
| Project Objectives | <p>Develop a master plan for a series of interconnected trails that can used by Tremonton City for use in the construction and maintenance of trails in the City.</p> |
| Utah Core Standards/Objectives | <p>Natural Resource Management I (9-12) Agriculture CTE Course Core Code: 30-03-00-00-001</p> <p>Standard 030111-05 Students will examine the relationship between natural resources and society, including conflict management.</p> <p>Objective 030111-0502 Students will identify and compare major natural resource management agencies and companies.</p> |

Objective 030111-0503

Students will describe human demands on natural resources.

Objective 030111-0505

Students will participate in a conflict management activity.

Standard 030111-11

Students will demonstrate understanding of land classification, planning, inventory, and monitoring methods.

Objective 030111-1101

Students will describe the interrelationships between land use planning and natural resources.

Objective 030111-1102

Students will demonstrate in public how GIS applies to land use planning.

Objective 030111-1103

Students will survey a site to determine potential land use.

Objective 030111-1104

Students will identify the components of a monitoring plan.

Objective 030111-1105

Students will compare and contrast the various inventory/sampling methodologies (i.e., population estimation).

Objective 030111-1106

Students will analyze a current, local Environmental Impact Statement (EIS) and determine the preferred alternative.

Objective 030111-1107

Students will develop a basic plan for monitoring a natural resource project.

Objective 030111-1108

Students will participate in public involvement processes in land use planning.

Standard 030111-12

Students will use computer technologies to solve environmental problems.

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| Essential Question(s) -Spatial Issue | Specifically which private landowners do the proposed trails affect or have the potential to intersect their land? What is the length of the various segments of the trail system? What interest is there in the community for a trail system and what would the preferred route be? |
| Assessments (rubrics, scoring guides) | A rubric would be created to assess the key elements of the Mapping project. Each student team would be required to create a PowerPoint presentation that could be used to present to the City Council. A rubric would be created to assess the key elements of the PowerPoint presentation. |
| Project Products | Each student team would design a map. Each student team would create a PowerPoint presentation. Each student team would create a community survey. |
| Project Timeline (include a step by step Procedures) | Begin fall of 2008. 2 hrs. to discuss the problem and possible solution. 2 hrs to learn GPS use for data collection 1 hr field trip to survey possible routes. Collect GPS data. 2 hrs learn GIS process and mapping software 1 hr to research landowners in the path of the proposed trail 3 hrs to Create Map using ArcMap 9.2 1 hr to create a survey instrument 2 hrs to survey the community (homework evening assignment) 1 hr to summarize survey data 3 hrs to create a PowerPoint to sell the project to the City Council and Public. 2 hrs Visit City Council Mtg. Make presentations. |
| Resources Needed | GPS devices ArcMap 9.2 Software Computer lab Landowner plates from County Recorder's Office Digital Camera |
| Skills Required | GPS device operation Computer skills PowerPoint Teamwork |

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| | Conflict Resolution |
| Project Team Member Roles | <p>Teacher(s): TJ Rhodes, Steven Littlefield Administrator: Eldon Petersen</p> <p>Students: US Gov't. Classes at BRHS Wildlife and Nat'l Resource Classes at BRHS</p> <p>Partner(s): IHC Tremonton City Parks and Recreation</p> |
| Celebration/Presentation | <p>Visit City Council Meeting and present proposals.</p> <p>Host a ribbon cutting celebration for the first leg of the trail</p> <p>Article in Local Newspaper</p> <p>Pizza party funded by Tremonton City</p> |
| Project Evaluation | <p>Peer evaluation Teacher evaluation via rubrics City Council proposal rankings</p> |
| Project Bibliography | NA |
| Plans for Future CMAP Activities | Mapping a walking tour of historic sites and buildings in Tremonton City |

Optional:

- Lesson Plans
- Student Artifacts
- Publicity