**Project Title:** Wasatch County Recycling Survey  
**Created by:** Kirk Heaton & Craig Jeppson  
**Class:** Heber and Pleasant Grove

<table>
<thead>
<tr>
<th>Project Description</th>
<th>As a collaborative effort, Wasatch county 9th grade geography and technology students will conduct surveys to assess the attitude of Wasatch County residents towards recycling. Students will present findings to the Wasatch County commission.</th>
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</thead>
<tbody>
<tr>
<td>Community Issue or Problem Selected -How project evolved?</td>
<td>Wasatch County has no curbside recycling service (public or private).</td>
</tr>
</tbody>
</table>
| Community Partner(s) | Wasatch County Solid Waste  
Paul Kennard  
Wasatch Economic Development  
475 North Main Street  
Heber City, Utah  84032  
Phone: (435) 654-3666  
Fax : (435) 654-3667  
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Recycling Zone: 654-2792- 671 W. 100 S. Heber City, Ut.  
Diamond K Waste: 654-2321-1891 W. 3000 S.  
Brad Mertz  
Recycling Coalition of Utah  
PO Box 112045  
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Les Prall  
Governor's Office of Economic Development  
Recycling Market Development Zone Program  
324 South State Street, Suite 500  
Salt Lake City, UT 84114-7360  
Phone: (801) 538-8804  
Fax : (801) 538-8888 |
<table>
<thead>
<tr>
<th>Project Objectives</th>
<th>The purpose of this project is to survey the level of interest of Wasatch County residents in recycling. Specifically, whether county residents would recycle if containers were provided and picked up by either a private or public service. The survey will also assess whether people will be willing to pay for the service.</th>
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<tbody>
<tr>
<td>Utah Core Standards/Objectives</td>
<td>Standard 4: objective 3b Determine the role of government in contemporary and historical world issues. Standard 5: objective1 Explore how humans change the environment and how the environment changes humans Standard 5 objective 2 Assess the importance and use of human and natural resources.</td>
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<tr>
<td>Intro to Comm Standards/Objectives</td>
<td>Objective 2-1 Students will know the steps of the design process. Objective 4-1 Students will understand, identify, and use electronically communicate information. Objective 4-3 Students will be able to send, receive, and confirm electronic communication.</td>
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<tr>
<td>Essential Question(s) -Spatial Issue</td>
<td>How can humans use resources without destroying the environment? How involved should government be in the lives of the people they govern? How has the technology of today allowed us understand and communicate in the world we live in today?</td>
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<tr>
<td>Assessments (rubrics, scoring guides)</td>
<td>1-The survey will be both a survey and an assessment. 2. Assessments will be given for students to demonstrate proficiency in using GPS units, and GIS.</td>
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<tr>
<td>Project Products</td>
<td>Students will disaggregate data from surveys and record findings on charts and map of Wasatch county. Students will also create charts and graphs to demonstrate to</td>
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</table>
the Wasatch County Planning Commission the cost benefit analysis of recycling.

| Project Timeline (include a step by step Procedures) | 1-Write grant to procure GPS units  
2-Install GIS software on computers at school  
3-Purchase GPS units  
4-Introduce students to the project idea.  
5. Introduce student to community human resources that can inform them of the utility of GIS and GPS.  
6. Introduce students to the use of GPS units: Geocaching  
7. Assign students areas and deadlines to administer surveys.  
8. Disaggregate data and download survey coordinates into computers  
9. Create maps and charts for presentation to Wasatch County Commission  
10. Make arrangements for newspaper article to appear in local paper.  
11. Present findings to Wasatch County Commission |
|---------------------------------------------------|---------------------------------------------------------------|

| Resources Needed | ArcGIS 9.2 software  
Wasatch County GIS data (maps)  
15-20 GPS Units |
|------------------|---------------------------------------------------------------|

| Skills Required | Ability to mark coordinates in a GPS unit  
Ability to download coordinates from GPS units to ArcGIS map.  
Ability to analyze and interpret data  
Ability to create charts and graphs |
|-----------------|---------------------------------------------------------------|

| Project Team Member Roles | Teacher(s): Craig Jeppson  
Kirk Heaton  
Students: All Wasatch County 9th grade geography students  
Partner(s):  
Wasatch County Solid Waste  
Recycling Zone: 654-2792- 671 W. 100 S. Heber City, Ut.  
Diamond K Waste: 654-2321-1891 W. 3000 S.  
Paul Kennard |
|------------------------|---------------------------------------------------------------|
| Wasatch Economic Development | Brad Mertz  
Recycling Coalition of Utah Les Prall  
Governor's Office of Economic Development  
Recycling Market Development Zone Program |
|-----------------------------|-----------------------------------------------|
| Celebration/Presentation    | Wasatch County Commission  
Wasatch Wave |
| Project Evaluation          |  |
| Project Bibliography        |  |
| Plans for Future CMaP Activities | Future students can follow up to influence & promote recycling |
| Optional:                  | -Lesson Plans  
-Student Artifacts  
-Publicity     |