# Project Title: Ride or Walk

Created by: Dan Ashbridge
Class: Salt Lake 2007

| Project Description | Survey the community surrounding Butler Middle School to see which get a ride to school as apposed to walking. Students will use GPS and GIS to create data in order to map the ratio between walking and distance from school. 

Upon completion students will analyze their collected data and hypothesize on the reasons for their finding. |
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<tr>
<td>Community Issue or Problem Selected</td>
<td>Is there a correlation between students who walk to school and how far they live from school? What are the environmental impacts of students driving to school?</td>
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<td>Community Partner(s)</td>
<td>Salt lake County Gov. Community Council Jordan School District</td>
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| Project Objectives | - Collect data throughout the neighborhood  
- Use GPS units to collect waypoints and tracks  
- Input data into ESRI ARC View 9.2 and create map  
- Analyze maps  
- Present findings and suggestions |
| **Utah Core Standards/Objectives** | - Students will understand the world in spatial terms.  
- Students will understand the human and physical characteristics of places and regions.  
- Students will understand how human activities shape the earth’s surface.  
- Students will use geographic knowledge to connect to today’s world. |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| **Essential Question(s)**        | - Location of school within individual neighborhoods.  
- Transportation method to and from school.  
- Identify volume and routes used to commute to school. |
| **Assessments (rubrics, scoring guides)** | - Assessment based upon: data collection, mapping, analysis, and a final presentation |
| **Project Products**             | Students will have produced: a complete data set, map based upon the data, analysis essay and a comprehensive presentation. |
| **Project Timeline**             | - 1-2 days GPS training  
- Use GIS training as part of week long mapping unit.  
- Homework during this time on surveys and data collection.  
- 1-2 Weeks Total |
| **Resources Needed**             | GPS Units  
Computer lab with ESRI Arc View 9.2 with data sets  
PowerPoint / Projector  
Clip boards  
Paper  
Writing utensil |
| **Skills Required**              | Students will need to be able to: collect data, map reading ability, GPS navigation and data collection, GIS map making ability, and public speaking/presenting. |
| **Project Team Member Roles**    | **Teacher(s):** Set up the criteria and rubric and guidance  
**Students:** collect data, create map and presentation. Be patient, positive learners. |
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<th><strong>Partner(s): provide data, provide opportunity for student presentation. Follow up action plan</strong></th>
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<td><strong>Celebration/Presentation</strong></td>
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| **Project Evaluation** | Parent and student survey  
Personal reflection  
Faculty survey |
| **Project Bibliography** | Survey sources  
ESRI Data  
GPS Waypoints and Tracks |
| **Plans for Future CMaP Activities** | Present finding to other class, grade levels and schools,  
Survey for future community spatial problems/ question  
New Future Community Mapping Project. |

Optional:  
- Lesson Plans  
- Student Artifacts  
- Publicity