

CMap PROJECT

Project Title: Century Elementary Bus Stops
Created by: Ronald Fisher, Century Elementary
rfisher@relia.net
Class: Box Elder School District, July 2008

Project Description	To take the bus routes for Century Elementary students and make a map and a database that would be available for the principal, emergency officials the school, and the parents. This information will be beneficial for Box Elder School District and the Box Elder County.
Community Issue or Problem Selected -How project evolved?	To set up a database that will set up Gold Medal School Safe routes to school map. For the school to set up a database of where students are located in case of an emergency.
Community Partner(s)	Box Elder County Recorder’s office (Chad Montgomery, Brice Lucas) I believe that Box Elder School District and The County have already mapped out the bus route. Box Elder School District Fire Department Police Services Bear River City
Project Objectives	Map out the different bus stops and create a database of the students that are supposed to be at each bus stop. Student involvement will be having the students collect the data using a GPS unit to mark the waypoints of each bus stop. The other part is to have the student’s survey and gather information at each bus stop. Those students that are able to walk to school will map out the safe walking routes to school, instead of marking bus stops. With the data, the students will be able to map using mapping skills, understand the community, and investigate human development within that community.
Utah Core Standards/Objectives	Gold Medal Schools is not an official standard but here is the link to safe schools: http://health.utah.gov/hearhighway/pdfs/ansr2s.pdf Community Standards Standard I: Students will understand how geography influences community location and development. Objective 1: Determine the relationships between human settlement and geography. Objective 3: Analyze ways cultures use, maintain, and preserve

	<p>the physical environment.</p> <p>Third Grade Standard II: Students will understand cultural factors that shape a community.</p> <p>Objective 1: Evaluate key factors that determine how a community develops.</p> <p>Third Grade Standard III: Students will understand the principles of civic responsibility in classroom, community, and country.</p> <p>Objective 1: Describe the rights and responsibilities inherent in being a contributing member of a community.</p> <p>Objective 2: Identify ways community needs are met by government.</p> <p>Objective 3: Apply principles of civic responsibility.</p> <p>The new standards: http://www.schools.utah.gov/curr/socialstudies/core/documents/SocialStudiesCoreDraft.pdf</p>
Essential Question(s) -Spatial Issue	<p>Is there a relationship between the community and the school</p> <p>Is there a logical outline of where the bus stops are located and are they safe?</p>
Assessments (rubrics, scoring guides)	<p>50 points – gathering the data.</p> <p>50 points – creating the maps.</p>
Project Products	<p>A map of the bus stops.</p> <p>A database that will be given to the office at Century Elementary, and the Community Officials, School Board.</p>
Project Timeline (include a step by step Procedures)	<p>18 Week project</p> <p>Week 1 – 6 = Introduction to GPS, learning how to use the units and defining a plan.</p> <p>Weeks 7 – 12 = GPS lesson per week and the purpose of gathering data.</p> <p>Introduction on how to make a map and how to correlate with the waypoint coordinates.</p> <p>Weeks 13 – 18 = Gathering data, making the maps, and making the presentation.</p>
Resources Needed	<p>15 GPS Units</p> <p>ArcGis Program</p> <p>Computer lab</p>
Skills Required	<p>Cooperative skills</p> <p>Students will work together to gather data and waypoints.</p> <p>Students will work together to create their map.</p> <p>Technology skills</p>

	<ul style="list-style-type: none"> • Students will learn to use a GPS unit. • Students will learn to use the ArcGis software. • Students will learn to use a digital camera. • Students will learn to create various maps using ArcGis software.
Project Team Member Roles	<p>Teacher(s): Ronald Fisher and Julie Snow</p> <p>Students: Century 3rd Grade Elementary</p> <p>Partner(s): Colleen Schaffer</p>
Celebration/Presentation	Presenting the maps to our school principal and if possible to the Community council members and/or mayor.
Project Evaluation	Students will be divided into groups according to their location in relation to the school. The groups will then be assigned specific roles, allowing the students to be recorders, GPS handlers, Map Markers, and project team leaders.
Project Bibliography	Gold Medal Schools Box Elder School District Box Elder County
Plans for Future CMAP Activities	Students will work on mapping historical monuments within the community, with the eventual goal being to create a community map and walking tour of the historical places significant to Bear River City and the surrounding communities. Another project is to map out the location of all the Century Farms that have been honored by Utah (Farms that have been established or are functioning for over 100 years – usually family farms).

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Optional:

- Lesson Plans: Use the lesson plans and ideas found at the GIS/ GPS Academy.
- Student Artifacts: Publish their maps in a bound book to be donated to the library.
- Publicity: Contact the local newspaper when we go to present to the community leaders.

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