

CMaP Project

Project Title: Outside Doors at Bennion Elementary

Created by: Catherine Field

Class: UEN CMaP 2010

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| Project Description | Students will create a map indicating the location of the outside doors at Bennion Elementary. Using the map they will evaluate the evacuation routes used during emergency drills to determine if there are current procedures that need to be changed. |
| Community Issue or Problem Selected -How project evolved? | This idea came about because it has been mentioned by the principal that the evacuation times for some of the classes has been too slow. I have been looking for a way to chart the information and the GPS and ArcMap provide an excellent way to do this. |
| Community Partner(s) | School Walt Layton, principal PTA Community Council |
| Project Objectives | <ol style="list-style-type: none"> 1. Learn to use GPS units 2. Learn to use ArcMap software 3. Gather and interpret data 4. Produce a map of the evacuation locations at the school |
| Utah Core Standards/Objectives | Fourth Grade – Healthy Lifestyles Standard 7: The students will understand the value of service. Objective 1: Participate in service learning. Identify needs of Utah citizens. |
| Essential Question(s) -Spatial Issue | Where are the locations of the outside doors at the school? Which classes exit each door? Are there any changes that need to be made to the school evacuation plan? |
| Assessments (rubrics, scoring guides) | Class participation Completed maps Teacher observation |
| Project Products | Map of door locations Analysis of evacuation routes |
| Project Timeline (include a step by step Procedures) | Learn GPS – 4 to 5 class periods Collect and record waypoints – 1 class period Learn ArcMap – as many as needed Create map - as needed Analyze evacuation routes compared to map – 1 to 2 periods Organize information to present to principal and community council |

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| Resources Needed | GPS units Digital camera Computers ArcMap Software Internet Access Printer Charts to record information |
| Skills Required | Basic Computer Skills Using a GPS Using ArcMap Software Group interaction skills |
| Project Team Member Roles | Teacher(s): Catherine Field Students: 4th graders at Bennion Elementary Partner(s): Walt Layton, Community Council |
| Celebration/Presentation | Present map and evaluation data to the principal and community council followed by class party |
| Project Evaluation | Did the students work well together? Were students successful with the GPS units and mapping software? Were any changes made to the evacuation procedure at the school? |
| Project Bibliography | Present evacuation routes of Bennion Elementary |
| Plans for Future CMAP Activities | Map locations where student's ancestors immigrated to Utah |