**Project Title:** Escape Routes  
**Created by:** DAVID BLAKE  
**Class:** Box Elder, July 2008

| Project Description | Updating the emergency evacuation routes for Adele C. Young Intermediate  
Mark all exits (1 door, 2 doors, 4 doors)  
Mark all rooms  
Distance to all exits  
Number of students out a door at one time  
Where is the best exit for each room? |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Issue or Problem Selected -How project evolved?</td>
<td>The safety of the school children and teachers is always high on the list of community issues.</td>
</tr>
<tr>
<td>Community Partner(s)</td>
<td>Schools, fire marshal</td>
</tr>
</tbody>
</table>
| Project Objectives | Mark all exits (1 door, 2 door, 4 door)  
Mark all rooms  
Distance to all exits  
Number of students out a door at one time  
Where is the best exit for each room? |
| Utah Core Standards/Objectives | Pre-Algebra 2:2  
1. Set up and solve problems involving proportional reasoning using variables.  
2. Solve percent problems, including problems involving discounts, interest, taxes, tips, and percent increase or decrease.  
3. Solve ratio and rate problems using informal methods |
<p>| Essential Question(s) -Spatial Issue | What is the best (fastest) route out of the classrooms? Is it the closest or the biggest? |
| Assessments (rubrics, | The students will find the distance to all the doors |</p>
<table>
<thead>
<tr>
<th>scoring guides)</th>
<th>Find the rate of number of students out a door per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Products</td>
<td>Present this information to the administration</td>
</tr>
</tbody>
</table>
| Project Timeline (include a step by step Procedures) | I would like to have this done by Nov 1, 2008  
1. plot out all doors and classrooms  
2. measure the distance from all classrooms to all doors  
3. find rate of number of students out a door per minute  
4. Plot out best route for each classroom  
5. create map of school |
| Resources Needed | GPS  
Google sketch  
Arc map |
| Skills Required | Use a GPS  
find rate  
Measure |
| Project Team Member Roles | Teacher(s): supervise  
Students: 1. plot out all doors and classrooms  
2. measure the distance from all classrooms to all doors  
3. find rate of number of students out a door per minute  
4. Plot out best route for each classroom  
5. create map of school  
Partner(s): approve plan |
| Celebration/Presentation | We, as a class, will present this map to the administration with the best routes to evacuate the build as quickly as possible. |
| Project Evaluation | We would like to decrease the time taken to evacuate the building in to of emergency |
| Project Bibliography | 1. ArcMap/GIS – ESRI 380 New York Street, Redlands, CA. 92373-8100 USA.  
2. 252-227-7015.  
3. Garmin – 1200 E. 151 Street, Olathe, KS. 66062 USA.  
4. 913-397-8282.  
6. min.html.  
7. Microsoft Powerpoint – Microsoft Corporation, One |
| Plans for Future CMaP Activities | We will update this with every trimester depending on the number of students in each class per hour |

Optional:
- Lesson Plans
- Student Artifacts
- Publicity