

Student Safety at MES

Project Title: Student Safety at MES

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Class: Richfield CMaP 2017

<p>Project Description</p>	<ul style="list-style-type: none">● Students will identify safe walking routes, hazards on school grounds and hazards within a 2-block radius.● Students will also identify safety issues associated with parking and student drop-off and pick-up before and after school.● Students will start with a brainstorm activity identifying possible hazards they have encountered within the 2-block radius or on school grounds. In small groups, students will then mark identified hazards with a GPS.● Possible hazards that students may identify include: crosswalks or lack of crosswalks, potholes, garbage/litter, speeding and distracted motorists, bike path hazards, playground hazards (which may include broken equipment, obstructions in play areas), etc.● Students will use GPS, GIS, and collect relevant data to locate, mark, and map areas of concern on school grounds and within a 2-block radius.● Student created maps will include potential safety hazards.● Students will create a plan and presentation for possible solutions to the identified hazards.● Students will present their plan to the principal, PTA, Community Council, and Manti City Council.
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<p>Community Issue or Problem Selected</p> <p>-How project evolved?</p>	<p>Overall Manti Elementary School is a safe environment for students. However, there are certain hazards that students encounter on school grounds and going to and from school. Students will learn how to identify hazards within their environment and develop a plan to make their environment and school a safer place.</p>
<p>Community Partner(s)</p>	<ul style="list-style-type: none"> *Fifth Grade Teachers *MES Staff *PTA *Community Council *Manti City Council
<p>Project Objectives</p>	<p>To make students at MES aware of hazards on school grounds and within a 2-block radius of MES. Students will also become proactive in being more aware of their role in student safety at MES.</p>
<p>Utah Core Standards/Objectives</p>	<p>Utah Core Standards: Educational Technology Grades (3-5). Standard 4</p> <p>Use general purpose productivity tools and peripherals to support personal productivity, to remediate skill deficits, and to facilitate learning throughout the curriculum.</p>

	<p>Standard 5 Use technology tools (e.g. multimedia authoring, presentation, web tools, digital cameras, scanners) for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.</p> <p>Utah Core Standards: Health and Safety Standard 5 The students will adopt behaviors to maintain personal health and safety and develop appropriate strategies to resolve conflict. Objective 1 Match safety procedures to potential hazards</p>
<p>Essential Question(s) -Spatial Issue</p>	<p>*How can student safety be increased at MES? *Where are potential hazards located on school grounds and within a 2-block radius? *What constitutes a “hazard” that students may encounter? *What role can students do to make their school a safer place? *What steps need to be taken in order to increase student safety?</p>
<p>Assessments (rubrics, scoring guides)</p>	<p>Rubric: *Student created maps with identified hazards marked with GPS waypoints. *Each waypoint is labeled with potential hazard. *Picture(s) identifying the student hazard.</p>

<p>Project Products</p>	<p>Google Slides Presentation ArcGIS Map</p>
<p>Project Timeline (include a step by step Procedures)</p>	<ol style="list-style-type: none"> 1. Teacher demonstrates proper use of GPS device. 2. Students are then given opportunities to demonstrate their learning by marking waypoints at various locations on school grounds. 3. Students will then be assigned into small groups (4-5 students per group). 4. Students will systematically walk the school grounds at MES marking and identifying with pictures any hazards or potential hazards. 5. Students will create a map and import that data that they have collected. 6. Each small group will be assigned a teacher, para-professional, or parent-volunteer. Each group will also be assigned a specific area within the 2-block radius to inspect 7. Each small group will then be assigned a specific area within the 2-block radius to inspect for hazards and potential hazards. 8. The groups of students and adult supervisor will inspect their specific area marking with waypoints and taking pictures of any hazards and potential hazards. 9. Students will then create a layer on their map which includes the hazards within the 2-block radius. 10. Students will first present their data to the fifth grade teachers. 11. Students will then present their data along with recommendations for improved safety to the MES principal, PTA, and Community Council.

Resources Needed	GPS device, computer, digital camera
Skills Required	<ul style="list-style-type: none"> ● Knowledge of GPS device ● ArcGIS student accounts ● Computer Skills/Software Skills ● Digital Camera experience
Project Team Member Roles	<p>Teacher(s): Darren Mecham, Stephanie Larsen, Dan Rasmussen, Sheri Henningson (MES 5th grade teachers)/Facilitators of the activity</p> <p>Students: To be determined</p> <p>Partner(s): MES principal, Community Council, PTA members, Manti City Council</p>
Celebration/Presentation	After all presentations are made and feedback from community partners are given, we will celebrate with a grade-level party and competitive STEM challenge.
Project Evaluation	Groups will meet 1 month after plans and presentations are given to determine effectiveness of the plan.
Project Bibliography	To be determined

Plans for Future CMAP Activities	Extended safe-school routes,

Optional:

-Lesson Plans

-Student Artifacts

-Publicity