TEMPLATE FOR CMaP PROJECT

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**Project Title: School Ground Map**
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**Class: Pleasant Grove 2007**

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| Project Description | School Ground Map<br>Students will mark each tree, large plant, playground equipment, sidewalk, and play area to create a map of the school ground. |
| Community Issue or Problem Selected<br>-How project evolved? | Teacher and students will work together with community partners to create a map of the school grounds to share with new students and their parents to acquaint them with the school, areas where to play, and off limit areas. |
| Community Partner(s) | GIS mentor for Tooele County and PTA representatives. |
| Project Objectives | Students will learn the basics of mapping with GPS and ArcGIS to create a map of the school grounds. Students and teacher will work community partners to create the map. The map will be available to students, their parents, and community. The map could be used to acquaint new students and parents to the school. |
| Utah Core Standards/Objectives | Technology Standard 5 Objective 3 & 4;<br>Standard 8 Objective 5 & 6<br>LA Standard 1 Objective 1 &2<br>Math -Standard 3 Objective 2; Standard 4 Objective 1 & 2; Standard 5 Objective 1<br>Science Standard 2<br>Social Studies Standard 6 |
| Essential Question(s)<br>-Spatial Issue | What are the various items on the school grounds and their relationship to each other and the school building? Where can students play? Which areas should students not be in? |
| Assessments (rubrics, scoring guides) | Students will be assessed by informal teacher observations and a product rubric. |

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| Project Products | Students will create a map of the school grounds to share with other students and their parents. |
| Project Timeline (include a step by step Procedures) | Discuss the proper use of the GPS unit.<br>Learn the basics of using a GPS unit, working with/out the satellites.<br>Learn to work with partners and small groups.<br>What data will be needed to complete project.<br>How to collect the needed data.<br>Find and mark waypoints. Create tracks.<br>Work with software to create a map.<br>Download waypoints and tracks and add to map.<br><br>I would like to finish this project within a two-week framework. |
| Resources Needed | GPS Units, computers, software, camera, data, paper, pencils, clipboards. |
| Skills Required | Use of GPS units, basic computer skills, following directions, working with partners and small groups, how to collect data needed, marking, finding waypoints and tracks, downloading GPS information to computer, use of ArcGIS software. |
| Project Team Member Roles | **Teacher(s):** Teaching, modeling and creating map with the students.<br>**Students:** Following directions, using GPS, collecting data, creating map.<br><br>**Partner(s):** Teaching, modeling and creating map with the students. |
| Celebration/Presentation | Students will present the map to other students and their parents. |
| Project Evaluation | Using the rubric, did the students create a map of the school grounds? |
| Project Bibliography | Community Mapping binder, ArcGIS 9.2 |
| Plans for Future CMaP Activities | Once the students and teacher are familiar with GPS and ArcGIS create and safe school walking map. |

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