

## TEMPLATE FOR CMap PROJECT

**Project Title: Aggressive Dogs**  
**Created by: Daniel Francom**  
**Class: Box Elder, 2008**

Project Description	<p>Students will use the “tracks” feature of the GPS unit to track routes of different distances throughout the town of Fielding. They will also mark where any aggressive dogs live.</p> <p>After that, they will map those routes using ArcGIS and show the distances. This map they will distribute to the citizens of Fielding along with their city bill.</p>
Community Issue or Problem Selected -How project evolved?	<p>More and more people are becoming health conscious. Many want to walk, run, or bike, but don’t know local distances. Hopefully, a map showing local routes and distances can contribute to a local healthy attitude.</p> <p>As a Gold Medal School, we are trying to get our students to become more healthy. Students can choose the route that challenges them best.</p>
Community Partner(s)	Fielding Town, Fielding Elementary
Project Objectives	<p>Create a useful project by using skills learned in:</p> <ul style="list-style-type: none"> <li>- GPS tracking</li> <li>- ArcGIS</li> <li>- Microsoft Publisher</li> </ul>
Utah Core Standards/Objectives	4 <sup>th</sup> Grade Physical Education Standards <a href="#">1,2,3,4</a> (click to link)
Essential Question(s) -Spatial Issue	How can our school and community become more health conscious?
Assessments (rubrics, scoring guides)	Small group project checklist
Project Products	<ul style="list-style-type: none"> <li>- Map of walking/running/biking routes and distances</li> <li>- Possible mile tracking sheet</li> </ul>
Project Timeline (include a step by step Procedures)	<ol style="list-style-type: none"> <li>1. Divide class into small groups of 4-5 students each</li> <li>2. Coordinate with Fielding City to include community needs</li> <li>3. Assign an approximate route distance for each group</li> <li>4. Have students find an appropriate route and map with GPS</li> <li>5. Teach ArcGIS in computer lab</li> <li>6. Overlay routes on map of Fielding color coding for walk, run, or bike. List distance for each.</li> <li>7. Send to City for distribution with City services bill</li> </ol>

Resources Needed	3-5 GPS units ArcGIS installed in lab Permission from administration and City
Skills Required	Ability to use GPS tracking Map reading skills Data interpretation skills Basic knowledge in ArcGIS
Project Team Member Roles	<b>Teacher(s):</b> Skills training, support, assessment <b>Students:</b> Project creation, development, implementation <b>Partner(s):</b> Support, distribution
Celebration/Presentation	Formal presentation of map to City Mayor
Project Evaluation	Project checklist review, self-analysis discussion
Project Bibliography	N/A
Plans for Future CMAP Activities	Self-Guided (GPS points) Utah indigenous plant field trip with thumbnail brochure.

Optional:

- Lesson Plans
- Student Artifacts
- Publicity