Project Title: Cemetery as Source for Life Table Analysis
Author: Crystal King
Class: Davis 2009

Project Description	Students will collect GPS Data, with Birth Year, Death Year, Sex, and age at death from headstones at the Salt Lake City Cemetery.
Community Issue or Problem Selected -How project evolved?	In the past I have had students look at cemetery data for age structure analysis. I found the logistics of storing and analyzing the data has been problematic. Salt Lake City cemetery provided the students with the year each plot in the cemetery was opened, but that is not specific to the year the individuals died. I would like the students to look at more real data, like what is the average life span of individuals who died from 1880-1890. I would share the data collected with Salt Lake City cemetery.
Community Partner(s)	Salt Lake City Cemetery
Project Objectives	Collect and record death records from multiple periods of time. Eventually looking at entire cemetery.
Standards/Objectives	**AP Environmental Science Curriculum**: Population; Human Population; Human population dynamics; (Historical population sizes; distribution; fertility rates; growth rates and doubling times; demographic transition; age-structure diagrams) **IB Environmental Systems**: Topic 4: Human Population and Carrying Capacity; 4.1 Population Dynamics; 4.1.2 Analyze age/sex pyramids and diagrams showing demographic transition models; 4.1.3 Calculate and explain, from given data, the values of crude birth rate, crude death rate, fertility, doubling time and natural increase rate; 4.1.4 Discuss the use of models in predicting the growth of human populations.

Essential Question(s) -Spatial Issue	How has the average age of death changed in the last century?
Assessments (rubrics, scoring guides)	Basic Map Elements Checklist- print a copy of their map. IB Lab Portfolio Rubric
Project Products	Map, graphs of age of death by year
Project Timeline (include a step by step Procedures)	Day 1: Students will travel to Salt Lake City Cemetery and mark 100 gravestones with their GPS in an assigned area. For each gravestone students should record; birth year, death year, age at death, and sex. Day 2-3: Using GPS units upload waypoints to ArcGIS software. Add layers of maps and fill in data to attribute table. Create Graphs. Create printable maps. Day 4: Present findings to the class
Resources Needed	GPS units ARCGis Software
Skills Required	Data Collection Marking waypoints with GPS Uploading waypoints to ArcGIS Creating maps and graphs with ArcGIS
Project Team Member Roles	**Teacher(s):** Facilitate fieldtrip, teach and support GPS units and software basics **Students:** Collect data, use software to create maps and graphs **Partner(s):** Provide support and share data
Celebration/Presentation	In class presentation of findings.
Project Evaluation	Classroom Assessment
Project Bibliography	

Plans for Future CMaP Activities	Continued SLC Cemetery analysis, Urban heat islands

Optional:
-Lesson Plans
-Student Artifacts
-Publicity