

Name	Alfonso Garcia
Lesson Title	Water Quality Survey
Grade and Subject	9-12 Physical Science/Science Club Project
Standard	HS-LS2-1. Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.
Objective	The objective of this project is to survey the water quality in the school neighborhood and create a data bank for students to share their findings with the school community.
Outline	<p>Steps</p> <ol style="list-style-type: none"> <li>1. The class or club needs to organize and distribute the following tasks to different teams: Possible Teams: <ol style="list-style-type: none"> <li>a. Data Analysis</li> <li>b. Sample Logging</li> <li>c. Sample Collectors</li> <li>d. Website Publishers</li> <li>e. Computer Science Group( Data bank Publishing)</li> </ol> </li> <li>2. The class or club will need to develop a system to pick up testing kits from home depot, record the number of samples that will be given to the community. Develop a labeling system to map the location for each sample, record it and imported into a data bank for the public access it.</li> <li>3. The goal of this project is to be ongoing and the data can be shared publicly so that the community and interested parties are able to view the data for personal or developmental purposes.</li> </ol>
Assessment	Possible assessment would be a presentation to peer students and/or teachers and administrators. Also, the class or club can host an informational evening meeting at the school to share their findings on the quality of the water in the neighborhood and ask homeowners for their support in efforts to monitor water quality in the area.
Materials/Resources	<p><a href="http://www.valleywater.org">www.valleywater.org</a></p> <p>Home Depot Water Testing Information (no current website available with this information)</p>
Needs	The instructor and/or a student representative needs to go to a local home depot hardware store and request water quality test kits to be distributed to homeowners in the school neighborhood. They might want to explain the purpose of using

	<p>water testing kits with the manager of the store to get their support on an ongoing basis.</p> <ul style="list-style-type: none"><li>-Water Testing Kits (Home Depot and Lowes Offer them)</li><li>-Access to computers and Internet.</li><li>-Adult Mentor(s)</li></ul>
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