

# ***Technology Service-Learning Projects***

## ***(Middle and High School Level)***



### ***Middle School***

- Students were asked by the local cable company to run the local access channel. The students learned about the equipment, production software and scriptwriting.
- Students created and maintained a web page about the new middle school construction project to keep their schoolmates and community members informed of progress.
- Students researched the impact of non-point source pollution and used multiple computer applications to create brochures, informational packets, public service announcements, and a website to educate the community.
- Science students partnered with local scientists to monitor local weather and post their findings on an international website on global warming.
- The local trolley museum needed students to help preserve local history by digitally archiving historical documents and photographs. Social studies students studying local history took on this service.
- Working with their town planner, students took digital images of all buildings in their town. Each of the images was titled with a map and relevant information - street address and date image were taken. Students updated the town's database to use for future planning.
- Students studied computer-graphing techniques and developed a school-wide survey to determine favorite hobbies and activities. Their analysis of the data allowed them to invite popular speakers for a school program.
- Concerned about bullying, students created an online survey to determine the extent of bullying at their school. All students took the survey, results were tabulated and the need for action documented on the district website. Students decided to create skits about bullying, which they presented to younger students.
- Tired of having nothing to do and no place to go in their town, alternative ed. students contacted the town Recreation Department. The director suggested as a first step that students take an inventory of teen activities in the area. Working with the department, the class developed contacts throughout the community and decided to create and maintain a website for local teens listing resources and current activities.

- Students felt that their school newsletter lacked professional characteristics. They partnered with the local paper to turn the newsletter into a “real” newspaper.

### ***High School***

- Students didn’t like the guide to local sites and attractions for their city. Working with the Visitors Bureau and historical Society, they developed a new guide just for teens that included digital photography, power point presentations and videography.
- Each technology student developed a computer mentoring relationship with 2-3 teachers in the district. Students taught teachers how to use different programs and suggested possible new classroom lessons using computer technology.
- Physics students used technology to help analyze wave patterns to solve local beach erosion problems. They presented their information to local agencies via Powerpoint and to the world via the Internet.
- Students became alarmed at levels of arsenic in local well water. They studied the issues involved and partnered with the Department of Environmental Protection to create an informational brochure to share with their communities.
- Students discovered that many senior citizens were having a hard time grasping basic computer concepts. Students developed a curriculum and worked one-on-one with seniors on 3 different programs: Powerpoint, Excel and Word.
- Students designed a campaign to receive donated computers, fix them up and give them to local families with elementary age children. With the computer came free set up and lessons.
- Technology students taped town meetings and streamed the video on the school website. All citizens, even those traveling and working out of town, know on Wednesday afternoons they can watch the town meeting.
- Advanced drafting students worked with the local police and fire departments to remap their city so the 911 emergency response system would be more effective.
- Concerned about the digital gender gap, students held a Technology Career Fair for 7<sup>th</sup> graders and took care to invite equal numbers of male and female participants.
- Using Computer Aided Design technology, drafting students worked with local businesses and non-profits to redesign their floor plans.
- Technology students observed that many of their peers had inadequate typing skills, so they developed a curriculum to teach elementary students to type.