



## Status Update for MHS Measure Q Technology Projects: Standardized Interactive Classrooms

Overall status: **Ongoing**

### Overview

Establish several interactive model 21<sup>st</sup> Century Learning Environments for evaluation and standardization. It is anticipated that this goal will span several years to ensure our teachers and students have adequate opportunity experience many emerging technologies prior to standardizing the typical classroom configuration.

Reference "[Measure Q Technology Expenditures 2011-2012](#)" document under General Information for further details.

Schedule item	Contact	Today's Date	Estimated Completion Date	Actual Completion Date	Comments
Purchase (Interactive Projectors)	tcurry@nohum.k12.ca.us	7/1/11	8/1/11	8/1/11	Complete
Install Projectors	tcurry@nohum.k12.ca.us	8/1/11	8/22/11	8/22/11	Complete
Purchase Document Cameras	tcurry@nohum.k12.ca.us	12/1/11	1/3/12	1/3/12	Complete
Install Document Cameras	tcurry@nohum.k12.ca.us	1/3/12	2/1/12		Operational issues are being addressed as they arise
Purchase Chromebooks	tcurry@nohum.k12.ca.us	11/4/16	1/13/17	1/27/17	Complete
Distribute Chromebooks	tcurry@nohum.k12.ca.us	3/3/17	4/24/17	5/8/17	Complete
Purchase Carts, Document Cameras, and Software	tcurry@nohum.k12.ca.us	3/10/17	4/10/17	4/3/17	Complete
Install Carts, Document Cameras, and Software	tcurry@nohum.k12.ca.us	4/3/17	5/26/17	Ongoing	90% Complete
Provide Professional Development Opportunity to Departments	tcurry@nohum.k12.ca.us	4/3/17	5/26/17	Ongoing	Complete; Individual PD is ongoing

### Technical Details

Two Learning Environments were targeted as models for evaluating 21<sup>st</sup> Century Learning Tools; the Library and Room 402. Interactive Projectors were installed in both locations, and the Library has served as the focal point for demonstrating and distributing Document Cameras.

In conjunction with the THRIVE Grant, Interactive Student Response Systems are also being evaluated. No Measure Q funds were expended for these evaluations; hence they are not part of this Update. However, the results of these evaluations may help determine future Measure Q Projects.

It is anticipated that one or more general demonstration to faculty and staff will occur prior to the end of the current school year.

## Ongoing Challenges

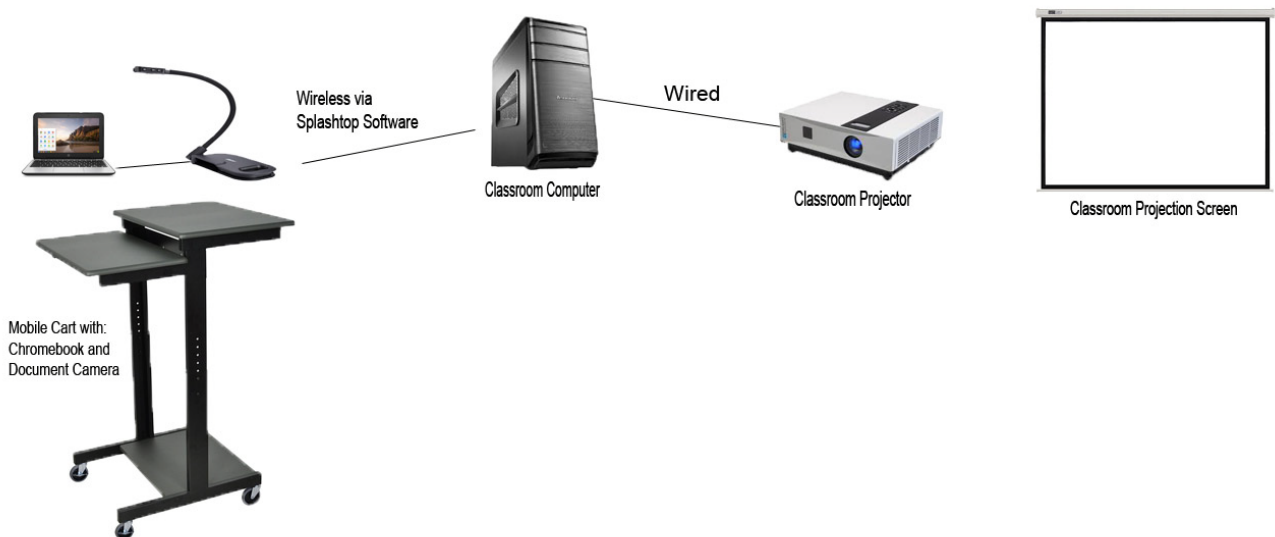
The existing projection screen in the Library is slightly smaller than what is required for optimum utilization of the Interactive Projector features. Efforts are being made to replace the existing projection screen in coordination with the upcoming Measure Q Media Center and Library Upgrade.

Utilization of Document Cameras for instructional purposes is new to our faculty. Prior to properly evaluating features and usage, time for staff development and practice is necessary. Software, hardware, and physical constraints are being addressed as they arise.

## Installation Timeline

Between 2012 and 2016 school site funds were utilized to evaluate multiple Standardized Classroom solutions with emphasis on mobility, reliability, and simplicity of use. These evaluations resulted in a standardized list of equipment to be installed into each classroom or learning environment:

- An Interactive Digital Projector (See Digital Projector Status Update for details)
- A reliable, easy-to-use Document Camera
- A classroom Sound System
- A mobile Computing Device for each teacher (With the transition to using Google Applications For Education, Chromebooks were selected for use)
- A fixed Computing Device for each classroom
- Reliable Wireless Access; Wireless Video transmission for mobile Computing Devices.
- A Portable Lectern
- A Projector Screen with a minimum of 8 foot diagonal viewing area



(Update 9/23/16)

It has been determined by the District Administrative Technology Committee to purchase a Chromebook for each teacher (100 total district-wide); One Mobile Cart, one document camera, and one Splashtop software license for each learning environment (47 total) at MHS; and upgrade Classroom projection screens as needed.