

# The Saugus Iron Works

HP Technology Connecting Centuries

NECC 2006 - San Diego, CA

## Rocks & Minerals

Early colonists needed natural resources to build an Iron Works. As ROCKHOUNDS, fifth graders learn to find & identify rocks & minerals.



## Simple Machines

The seventeenth century was powered by simple machines such as the wheel & axle, wedge, and lever making the Saugus Iron Works a technological marvel of its time.

## Parent Page



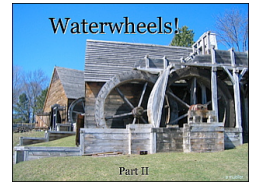
Using the multimedia Parent Page, developed with Adobe's Breeze

software, students share what they are learning in school with four different languages: English, Chinese, Spanish, Vietnamese. Ninety percent of fifth grade homes have an Internet connection according to a recent student survey.

## Engineering

Understanding the engineering design process is made easier with interactive Waterwheel Breeze presentations. HP tablets and projectors enabled teachers to effectively instruct students how to calculate the torque of a waterwheel. Fifth grade

students, on a field trip to the Iron Works, calculated the torque of a working 17th century waterwheel.



*"At the Saugus Iron Works I had a lot of fun and I loved the waterwheel because I loved the way the people in the past could power up things just by spinning the waterwheel."*

-Ferryway School Fifth Grader



## HP Technology for Teaching

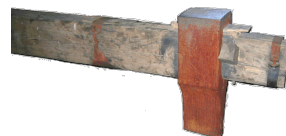
The Ferryway School HP grant team is pleased to present our work at the 2006 National Education Computing Conference (NECC) in San Diego, CA. We will premiere our movie, *The Saugus Iron Works 1646-2006*, at the HP Poster Session on Friday, July 7, 10 am - Noon. Sails Pavilion, San Diego Convention Center

The SIW movie chronicles how we used our HP grant project to build innovative new instructional content focused on helping fifth grade students to learn the engineering design process. Students broadened their under-

standing of technology across the centuries by building their own waterwheels.

## Promoting Technology Leadership

The new resources created through our HP grant at the Ferryway Science & Technology / Engineering magnet school were widely shared with other Malden Public School fifth grade teachers. Over 500 students used the Saugus Iron Works unit in 2006



with over forty teachers participating. Our district's administrators fully support the integration of curriculum and technology.



Visit the SIW PBU Weblog site: <http://www.tritec-inc.org/blogs/siw/>

Get the latest news and resources.