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Saugus Iron Works Project-Based Wiki

Last updated: June 25, 2014

Saugus Iron Works Forge

The Saugus Iron Works Great Adventure is an interdisciplinary unit that includes interactive social studies, science, and technology lessons aligned to Massachusetts curriculum standards for the fourth and fifth grades. The lessons are focused on the oldest iron works in the United States, located in Saugus, Massachusetts, approximately nine miles north of Boston. The lessons within this unit may be used in conjunction with a visit to the Iron Works, but an actual visit is not necessary.

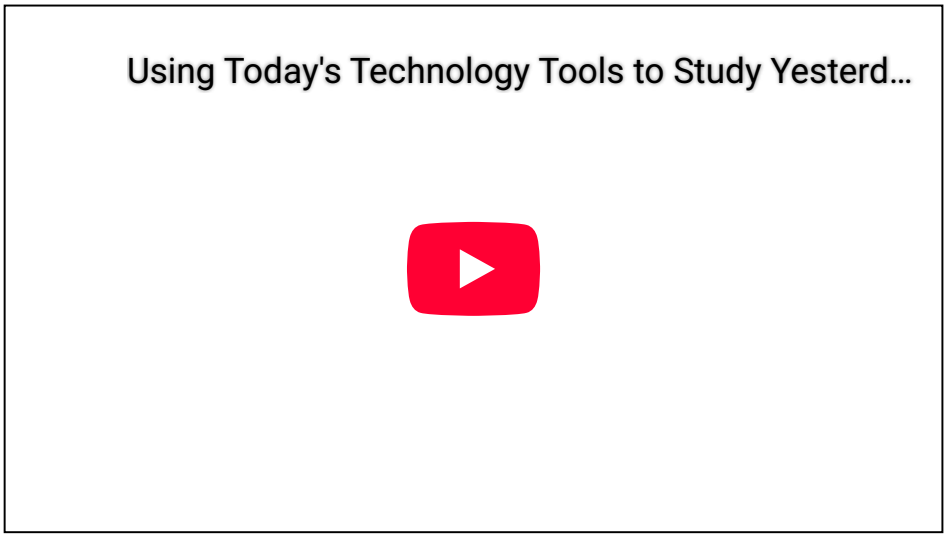
Brief History

Curriculum Model

Adobe Flash Player is no longer supported

Turning on Technology (5/30/08)

George Lucas Educational Foundation video -10 min (filmed April 15-16, 2008) [new youtube embed updated 9/18/12]



Visualizing Technology Integration: A Model for Meeting ISTE Educational-Technology Standards

Common Sense: An Overview of Integrated Studies (9/9/08)

Edutopia features Ferryway and other schools in video - 10 min [new youtube embed updated 9/18/12]

An Introduction to Integrated Studies: Executive Summary (10/7/08)

Edutopia explains the major components of integrated study using the Ferryway SIW project. - 3:20 [new youtube embed updated 9/18/12]

CONNECTING TO THE SIW PBU

Home page (Version 6.0)

SIW PBU Main Page (Version 6)

Link Index

Directory of 29 links used in the SIW PBU. Shows EXPIRED and NEW links.

SIW blog

[Videos]

MAJOR COMPONENTS

There are four major components to the original SIW PBU. The Waterwheel component builds upon Simple Machines.

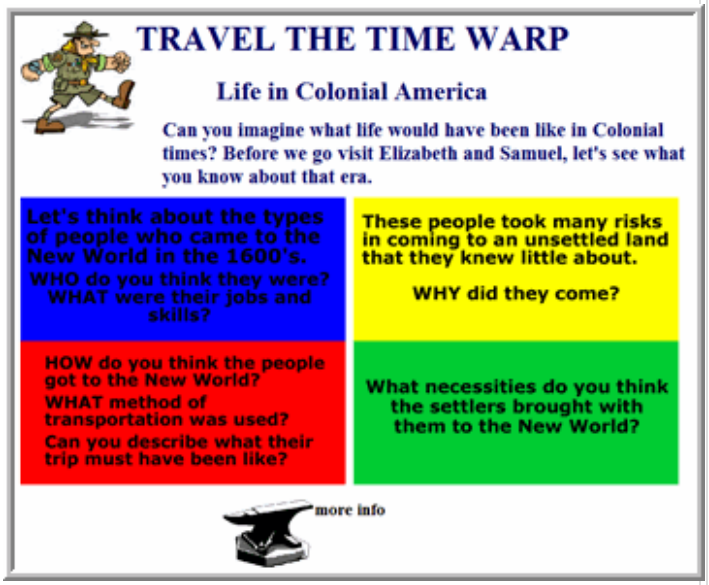
Introduction

Colonial Times

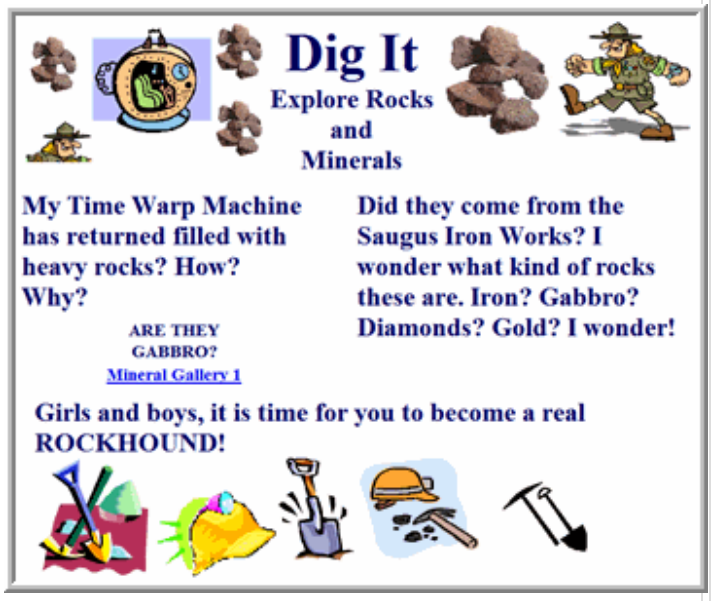
Rocks and Minerals

Simple Machines

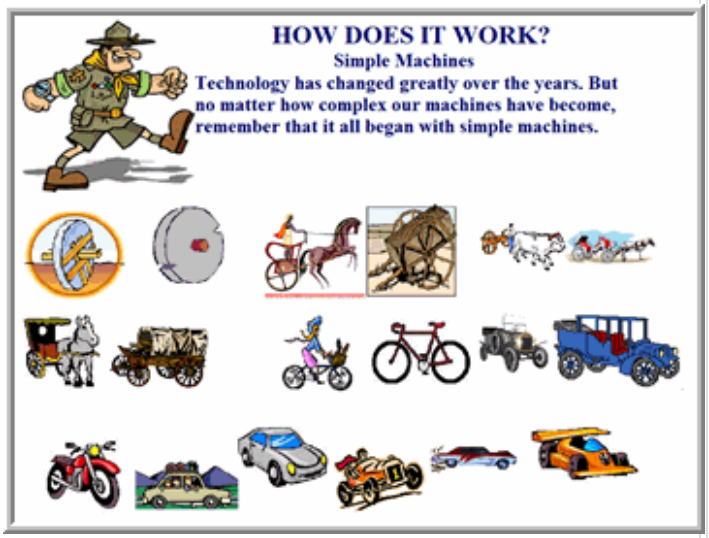
Introduction



Colonial Times



Rocks and Minerals



Simple Machines

Waterwheel and Engineering Design Process

Waterwheels 1 Multimedia Presentation

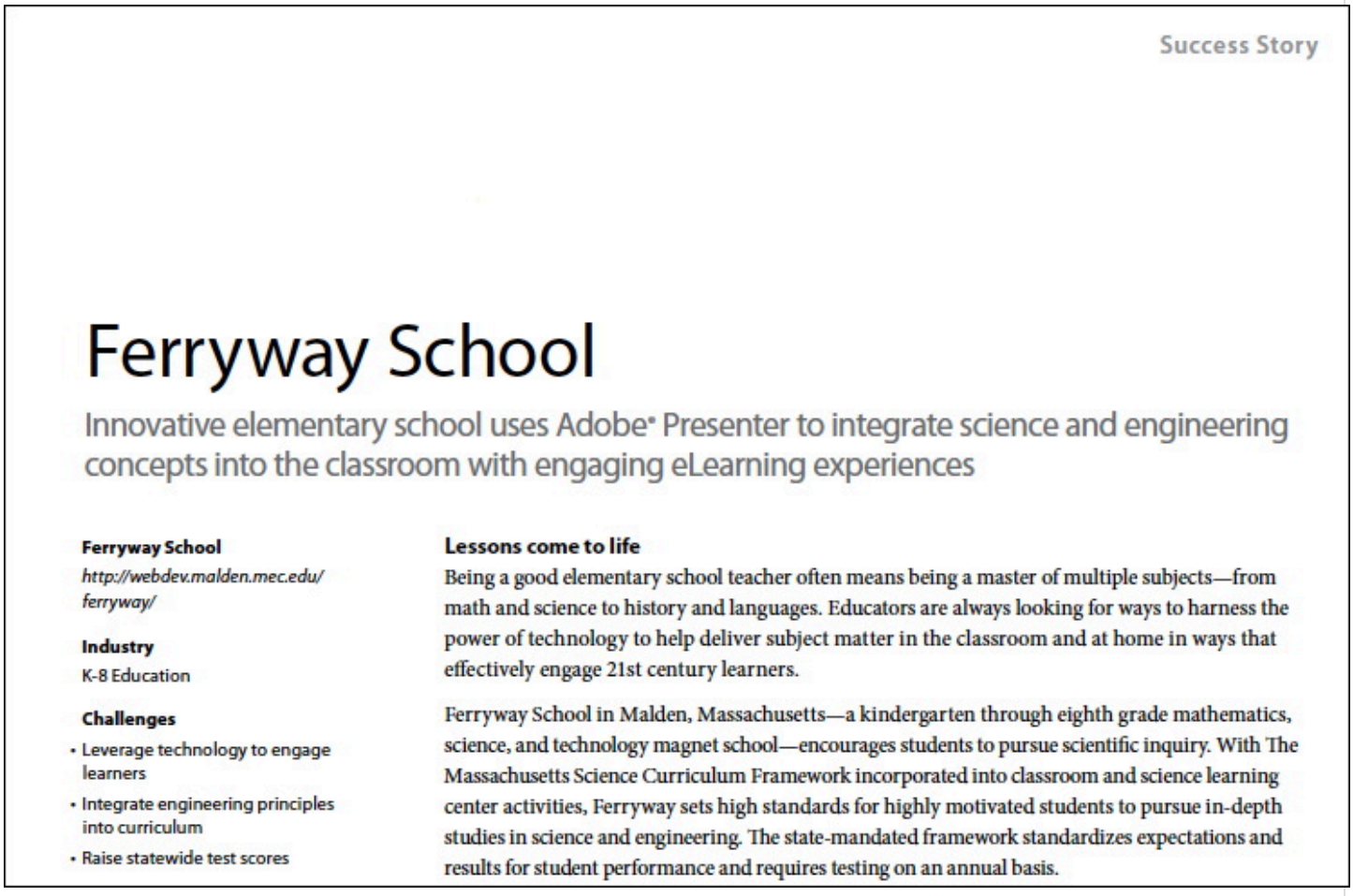
Waterwheels Part 2 Mulitmedia Presentation

Building an efficient waterwheel

Calculating the torque of a waterwheel

Waterwheel Design Competition

Read Adobe Education Case Study



Success Story

Ferryway School

Innovative elementary school uses Adobe® Presenter to integrate science and engineering concepts into the classroom with engaging eLearning experiences

Ferryway School
http://webdev.malden.mec.edu/ferryway/

Industry
K-8 Education

Challenges
- Leverage technology to engage learners
- Integrate engineering principles into curriculum
- Raise statewide test scores

Lessons come to life

Being a good elementary school teacher often means being a master of multiple subjects—from math and science to history and languages. Educators are always looking for ways to harness the power of technology to help deliver subject matter in the classroom and at home in ways that effectively engage 21st century learners.

Ferryway School in Malden, Massachusetts—a kindergarten through eighth grade mathematics, science, and technology magnet school—encourages students to pursue scientific inquiry. With The Massachusetts Science Curriculum Framework incorporated into classroom and science learning center activities, Ferryway sets high standards for highly motivated students to pursue in-depth studies in science and engineering. The state-mandated framework standardizes expectations and results for student performance and requires testing on an annual basis.

Case study describes the use of Adobe Presenter to bring content experts to students.

AdobeCaseStudy_ferryway_05132008.pdf

Conclusion

TEACHERS

Worksheet Matrix

Assessment

Writing Initiative

RESULTS

HP TECHNOLOGY for TEACHING

HP's official grant program website

Implementing the Refreshed NETS•S

ISTE and HP developed this free online course to help school administrators, peer coaches, professional development providers, and other education leaders enhance their skills in identifying and supporting effective use of technology as a tool for teaching and learning.

Voices Rising

VOICES RISING - A Teaching American History Grant Project

Teachers build new history lessons based on primary source documents related to the Saugus Iron Works.