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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]

Using Today's Technology Tools to Study Yesterd...



[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]

Common Sense: An Overview of Integrated Studi...



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]

An Introduction to Integrated Studies



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







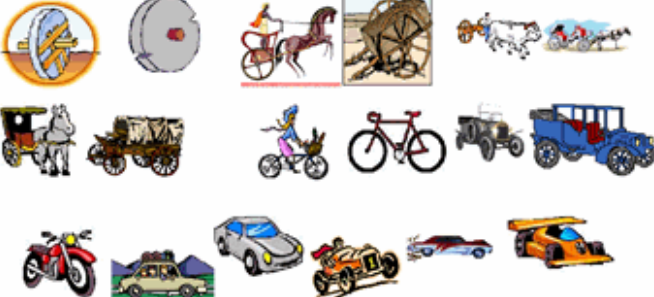
There are four major components to the original SIW PBU. The Waterwheel component builds upon Simple Machines.

Introduction

Colonial Times

Rocks and Minerals

Simple Machines

 <p>Hi, I'm Ranger Ron and I work at the oldest iron works in the United States!</p> <p>Do you like to play games?</p> <p>Do you like to build things?</p> <p>Do you like adventure?</p> <p>Well, I have a site for YOU!</p>	 <p>TRAVEL THE TIME WARP</p> <p>Life in Colonial America</p> <p>Can you imagine what life would have been like in Colonial times? Before we go visit Elizabeth and Samuel, let's see what you know about that era.</p> <table border="1"><tbody><tr><td>Let's think about the types of people who came to the New World in the 1600's. WHO do you think they were? WHAT were their jobs and skills?</td><td>These people took many risks in coming to an unsettled land that they knew little about. WHY did they come?</td></tr><tr><td>HOW do you think the people got to the New World? WHAT method of transportation was used? Can you describe what their trip must have been like?</td><td>What necessities do you think the settlers brought with them to the New World?</td></tr></tbody></table>  more info	Let's think about the types of people who came to the New World in the 1600's. WHO do you think they were? WHAT were their jobs and skills?	These people took many risks in coming to an unsettled land that they knew little about. WHY did they come?	HOW do you think the people got to the New World? WHAT method of transportation was used? Can you describe what their trip must have been like?	What necessities do you think the settlers brought with them to the New World?
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HOW do you think the people got to the New World? WHAT method of transportation was used? Can you describe what their trip must have been like?	What necessities do you think the settlers brought with them to the New World?				
Introduction	Colonial Times				
 <p>Dig It</p> <p>Explore Rocks and Minerals</p> <p>My Time Warp Machine has returned filled with heavy rocks? How? Why?</p> <p>ARE THEY GABBRO? Mineral Gallery 1</p> <p>Girls and boys, it is time for you to become a real ROCKHOUND!</p> 	 <p>HOW DOES IT WORK?</p> <p>Simple Machines</p> <p>Technology has changed greatly over the years. But no matter how complex our machines have become, remember that it all began with simple machines.</p> 				
Rocks and Minerals	Simple Machines				

Waterwheel and Engineering Design Process

Waterwheels!!



Waterwheels 1 Multimedia Presentation

Building an efficient waterwheel

Waterwheels!



Waterwheels Part 2 Multimedia Presentation

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

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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.

The logo for "Voices Rising" features the words in a stylized, cursive script. The word "Voices" is in a dark blue color, and "Rising" is in a dark red color. The letters are elegant and flowing, with a slight shadow effect.

VOICES RISING - A Teaching American History Grant Project

Teachers build [new history lessons](#) based on primary source documents related to the Saugus Iron Works.