

# Student Workbook

California Education and the Environment Initiative

# 7

History-Social  
Science Standard  
7.3.5.



# Genius Across the Centuries

## California Education and the Environment Initiative

Approved by the California State Board of Education, 2010

### The Education and the Environment Curriculum is a cooperative endeavor of the following entities:

California Environmental Protection Agency

California Natural Resources Agency

Office of the Secretary of Education

California State Board of Education

California Department of Education

California Integrated Waste Management Board

### Key Leadership for the Education and Environment Initiative:

**Linda Adams**, Secretary, California Environmental Protection Agency

**Patty Zwarts**, Deputy Secretary for Policy and Legislation, California Environmental Protection Agency

**Andrea Lewis**, Assistant Secretary for Education and Quality Programs, California Environmental Protection Agency

**Mark Leary**, Executive Director, California Integrated Waste Management Board

**Mindy Fox**, Director, Office of Education and the Environment, California Integrated Waste Management Board

### Key Partners:

Special thanks to **Heal the Bay**, sponsor of the EEI law, for their partnership and participation in reviewing portions of the EEI curriculum.

Valuable assistance with maps, photos, videos and design was provided by the **National Geographic Society** under a contract with the State of California.

### Office of Education and the Environment

1001 I Street • Sacramento, California 95812 • (916) 341-6769

<http://www.calepa.ca.gov/Education/EEI/>

© Copyright 2010 by the State of California

All rights reserved.

This publication, or parts thereof, may not be used or reproduced without permission from the Office of Education and the Environment.

These materials may be reproduced by teachers for educational purposes.



## **Lesson 1** Inventing the Standard

Key Unit Vocabulary .....	2
Blue Jeans Flowchart .....	3

## **Lesson 2** Going to the Source

My Invention Flowchart .....	4
------------------------------	---

## **Lesson 3** Getting and Making Things

How To Make _____ Manual .....	5
--------------------------------	---

## **Lesson 4** Natural Influences of Inventions

None required for this lesson.

## **Lesson 5** Social Influences of Inventions

None required for this lesson.

## **Lesson 6** The Influence of Chinese Genius on the World

None required for this lesson.

## Key Unit Vocabulary

### Lesson 1

---

**Artisan:** A worker in a skilled trade (usually making things by hand).

**Consumption:** The process of obtaining energy and matter from a natural system, such as by eating other organisms; the process of using goods produced by natural or human social systems; or, in the context of energy resources, the use and conversion of an energy source from one form to another.

**Commodity:** A good that is mined, grown, or manufactured, and then bought or sold.

**Diffusion:** The process of spreading something widely, such as ideas, products, or practices.

**Economy:** Activities related to the production, distribution, and consumption of goods and services.

**Extract:** To remove, pull, or take out, such as removing metal from ore.

**Innovation:** The process of creating a new way of doing things, or the resulting product or process.

**Invention:** A new device or process that somebody has created.

**Mass-produce:** To make goods in large quantities.

**Natural resources:** Materials such as water, minerals, energy, and soil, that people use from nature and natural systems.

**Natural system:** The interacting components, processes, and cycles within an environment, as well as the interactions among organisms and their environment.

**Tribute:** Money or goods paid by one ruler or nation to another, often resulting from war or a show of force.

**Blue Jeans Flowchart**

Lesson 1

Name: \_\_\_\_\_

**Instructions:** Use information from *California Connections: The First Jeans* (Student Edition, pages 2–5) to complete the flowchart below.

<p><b>The Need:</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>	<p><b>The Resources (available):</b></p> <hr/> <hr/> <hr/> <hr/> <hr/>
<p><b>The Invention:</b></p> <hr/> <hr/>	
<p><b>The Influence:</b></p> <hr/>	

Name: \_\_\_\_\_

**2. The Need:**

**1. The Resources (available):**

**Sources of the Resources:**

**The Invention:**

**The Influence**

<b>3. On Natural Systems:</b>	<b>4. On Human Social Systems:</b>









California STATE BOARD OF  
EDUCATION

---

## California Education and the Environment Initiative