

# 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 Initiative Curriculum is a cooperative endeavor of the following entities:**

California Environmental Protection Agency  
California Natural Resources Agency  
California State Board of Education  
California Department of Education  
Department of Resources Recycling and Recovery (CalRecycle)

### **Key Partners:**

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## **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.

**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>













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