



Name \_\_\_\_\_

Date: \_\_\_\_\_

**Course: US History/Ms. Brown****Homeroom:**

7<sup>th</sup> Grade US History  
Standard # – Do Now – Day #98

**Aims:** SWBAT identify key technological advancements in the United States  
 SWBAT identify key advancements in transportation in the United States  
 SWBAT evaluate how growing technology and transportation helped the US economy to develop

**DO NOW**

**Directions:** Answer the following questions in complete and historically accurate sentences. You must attempt each question, there should be absolutely no blank spaces. Be sure to provide examples and evidence to support your answers.

1. It's the year 2013 and absolutely everything has been invented right? WRONG! Pretend that you are an inventor of the highest order, what would you invent to benefit society? Why is your invention necessary?

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2. What is the name of your invention? \_\_\_\_\_

3. What does it do? Write a description of how it works

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4. Draw a picture of your invention



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**Daily Debrief**

Dear Scholars,

Last week we learned about Andrew Jackson, the Indian Removal Act and the Trail of Tears. This week we are going to learn about what factors were taking place in the US that led to the land greed of many American citizens. We will evaluate the question: how did the growth of technology lead to the oppression of various groups in the population? Let's have a great inquiry!

**I. Quick Notes**

**Technological Innovations** – new inventions helped industries to grow and agriculture to expand

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_



2. **Transportation Innovations** – helped businesses and farms to transport goods in a cheaper and faster way, so that profits could be increase

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_

**3. Government Support**

- A. \_\_\_\_\_
- B. \_\_\_\_\_

II. **Investigation:** How did these innovations help industries to grow and agriculture to expand? Examine each document and answer the questions that follow. Your answers will help you to determine how each innovation helped change the American economy.

**Overview**

In the decades before the Civil War – a period sometimes dubbed the **First Industrial Revolution** – a significant number of inventions and innovations appeared, transforming American life. Also of great consequence was the development of the American System of Manufactures; this system, in which individual workers were responsible for only part of a finished product, helped make store-bought goods more affordable. As a result, people began to buy goods from stores rather than making them – the American consumer was born.



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**Clue #1: The Patent**

**“The patent system added the fuel of interest to the fire of genius”  
-Abraham Lincoln**

**Patent** – the exclusive right granted by a government to an inventor to manufacture, use, or sell an invention for a certain number of years

Using the definition and the quote, how did patents give an incentive to American inventors?

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**Clue #2: Interchangeable Parts**

**Interchangeable parts** are components of any device/machine designed to make sure that they will fit within any device of the same type. This streamlines, or simplifies, the manufacturing process, since all the pieces are guaranteed to fit with all others, and it similarly creates the opportunity for replacement parts.

How did interchangeable parts help manufacturing to become faster and more efficient?

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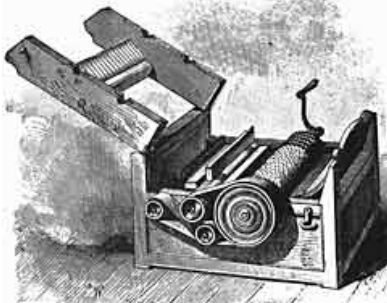
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**Clue #3: The Cotton Gin**

Eli Whitney learned that Southern plantation owners needed a way to make growing cotton profitable. The one variety of cotton that grew inland had sticky seeds that were time consuming to pick out of the fluffy white cotton bolls. His solution? The cotton gin, which could easily remove the seeds.

After the invention of the cotton gin, the yield of raw cotton doubled each decade after 1800. Demand was fueled by other inventions of the Industrial Revolution, such as the machines to spin and weave it and the steamboats to transport it.

1. How did the invention of the cotton gin affect the production and yield of cotton?

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2. How might the invention of the cotton gin affect Southern society? Think deeply!

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**Clue #4: The Steamboat**



The term steamboat is usually to refer to smaller steam-powered boats working on lakes and rivers, particularly **riverboats**; steamship generally refers to steam powered ships capable of carrying a (ship's) boat. Robert Fulton developed the steamboat, although other inventors had contributed to the process. His ship, the *Clemont* sailed in 1808 for the first time.

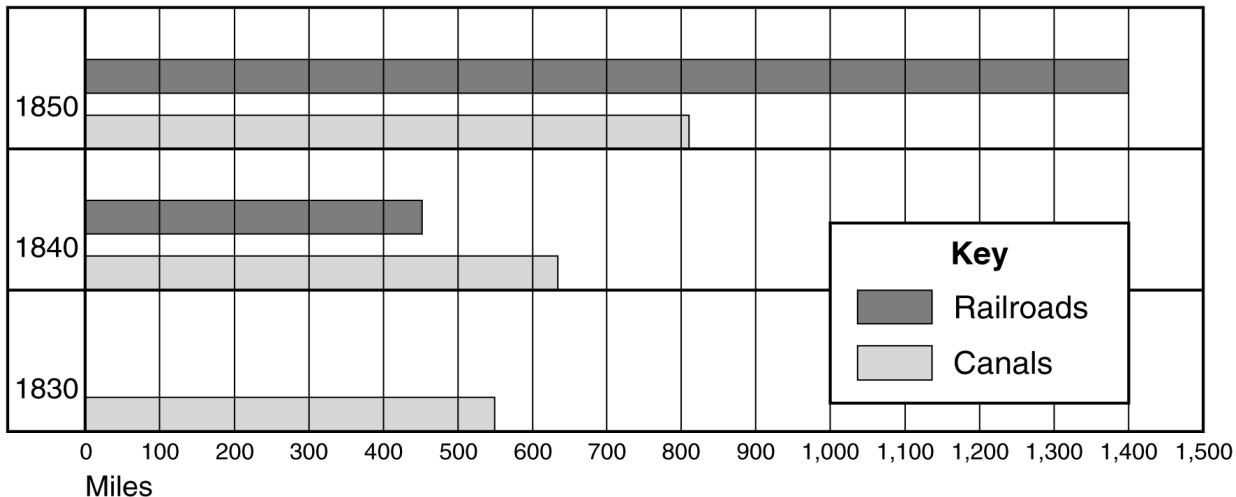
The boats transported cargoes of cotton, sugar and passengers. Throughout the east, steamboats contributed greatly to the economy by transporting agricultural and industrial supplies.

1. How did steamboats help the economy?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Clue #5: Increased Roads and Canals?**

**Miles of New York State Canals and Railroads, 1830–1850**





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1. What trend, or pattern, is shown in the graph over time?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. How did this trend in transportation help industry grow?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Clue #6: The Erie Canal**

**Shipping Freight During  
the Erie Canal Era  
(New York City to Buffalo)**

	Dirt Road	Canal
Method	Wagon	Boat
Amount of Time	21 Days	8 Days
Cost	\$100/ton	\$10/ton

Source: James Silver, *American History Activities*,  
The Center for Applied Research in Education (adapted)

Using information from the chart, state **two** economic advantages of using the Erie Canal instead of dirt roads to transport freight during the canal era.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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### Industrial Technology HOMEWORK

\_\_\_\_\_/12 Mastered/Passing/Not Mastered

## Transportation Methods of the mid-1800s

Method of Transportation	Average Speed	Shipping Costs
<b>Roads</b> 	2 miles per hour by wagon 6–8 miles per hour by stagecoach	15 cents per ton per mile
<b>Canals</b> 	2–5 miles per hour	1.1 cents per ton per mile
<b>Railroads</b> 	10–20 miles per hour (including stops)	3.4 cents per ton per mile

Source: George Rogers Taylor, *The Transportation Revolution, 1815 to 1860*, Rinehart and Company, 1951 (adapted)

1. Based on this chart, what are **two** advantages of using railroads compared with other methods of transportation in the mid-1800s.

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Score

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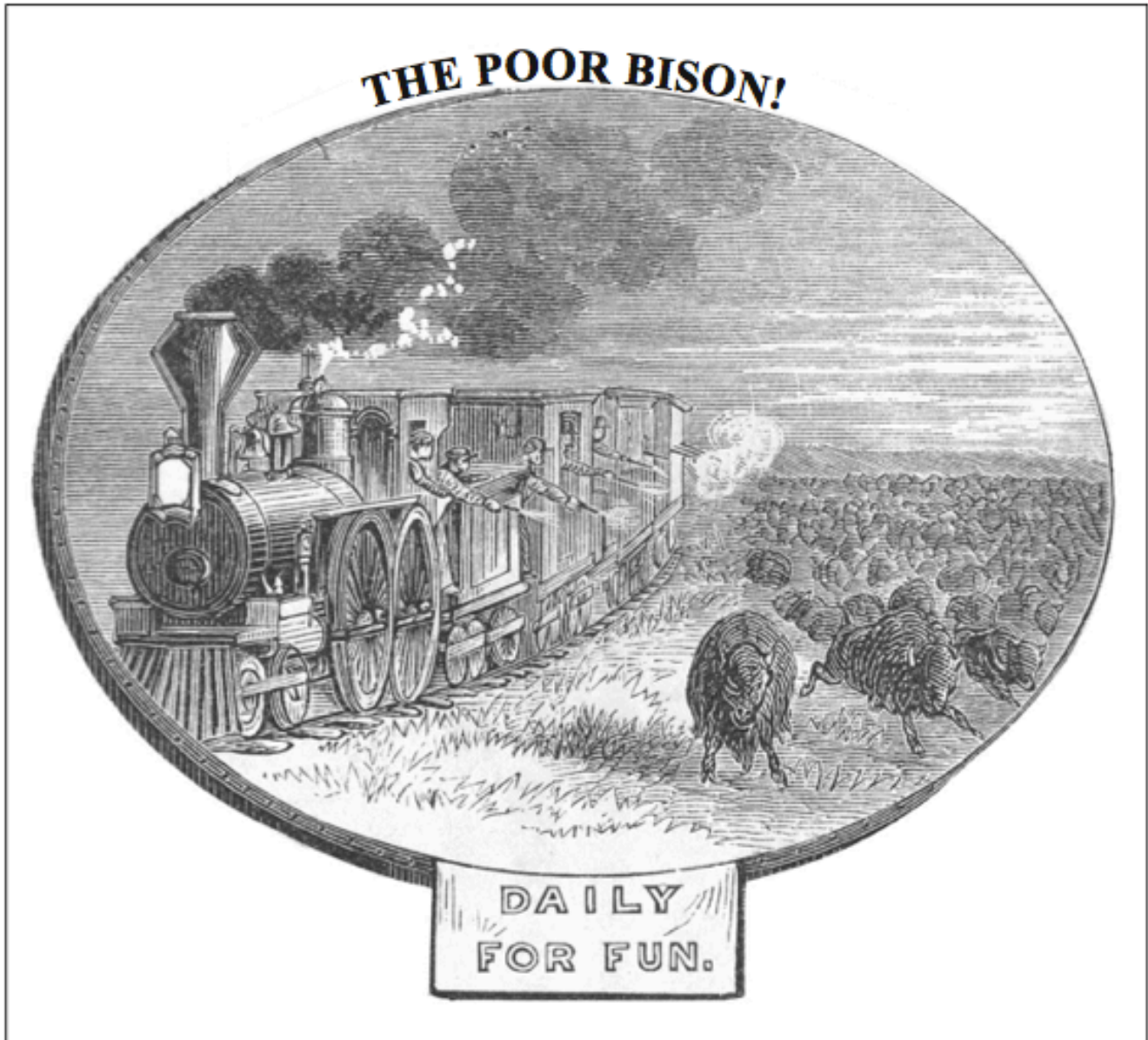
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## Wanton [Merciless] Destruction of the Buffalo



Source: William Edward Webb, *Buffalo Land*, Hubbard Brothers, 1872 (adapted)

2. Based on this document what is **one** negative effect of the railroad? Use details from the picture to explain your answer.

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Score





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**EXIT TICKET**

\_\_\_\_\_/5 Mastered/Passing/Not Mastered

1. What was an immediate effect of the completion of the Erie Canal in 1825?
  - a. Prices increased for food products along the Atlantic Coast
  - b. Farmers could more easily ship grain to eastern markets
  - c. A territorial conflict began with Canada over the Great Lakes
  - d. Railroads were forced to reduce their shipping rates
  
2. What was the primary effect of Eli Whitney's 1793 invention?
  - a. Federal government regulated Southern exports
  - b. Cotton production increased
  - c. Most textile mills in the South grew
  - d. The federal government encouraged the addition of more enslaved persons
  
3. Which invention do you think had the greatest impact on industrialization in the United States? Why?

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