



8th Grade Lesson Plan #1 (Arizona) *Inventions of the Industrial Revolution*

Time: 2 class periods, 45-50 minutes each

Objective: Students will analyze the new inventions and transportation methods created during the Industrial Revolution and describe their impact on American life and history concerning westward expansion.

Strand 4 Geography, Concept 4: Physical Systems

PO 7: Describe how changes in technology, transportation, communication, and resources affect economic development.

Pipe Spring National Monument Theme 4: Pipe Spring is small, but significant part of a much larger landscape.

Materials: colored pencils, markers, large sheets of cardstock or heavy weight paper, rulers, media lab, and research handouts.

Procedures:

Opening/Introduction: Have students answer the following- iPods, the hybrid car, YouTube, Nintendo's Wii are all examples of things that have been invented since the year 2000. How has this technology affected your life? Discuss their answers and some other inventions from the 1990s that also changed things (the internet, cell phones, Red Box, etc.).

In recent years, there have been many technological innovations that have changed how we entertain ourselves, work, study, and so on. In the 19th century, people also experienced many new technologies that revolutionized how people lived. Review a little of what life in the U.S. was like before the Industrial Revolution. How did people transport themselves? How long do you think that took? How were clothes made? If you wanted to listen to music, what did you have to do? Over the next couple of days, we are going to learn about some of the inventions from the 19th century that dramatically changed these key aspects of American life.

Activity: Divide students into groups of three or four. Hand out the project's instruction worksheet and read it aloud with the students. Explain to students that each group will choose an object that was invented during the mid to late 19th century and they will research online- who invented it, what it did, and how it changed American life. Each group will complete a worksheet, create a poster, and write a summary paragraph that describes what their invention is and how it changed life in the United States of America. Students will present their posters to the class and give a short presentation on it. (If short on time, students can do a gallery walk instead where they walk around the room and view the other posters.)

List of Inventions to choose from:



Winchester Repeating Rifle

Phonograph

Sewing machine (Isaac Singer)

Telegraph

Telephone

Steam Locomotive

Electricity/Light bulb

Photography

Typewriter

Barbed wire

Conclusion: Have students present their posters or do a gallery walk of the inventions. If doing a gallery walk, make sure that students post their summary paragraphs next to their poster, so students can read about the invention. After viewing the posters, ask students which 19th century invention they think changed life in the U.S. the most.

Follow-up Activity: Have students pick the invention they think was the most important and write a short persuasive paragraph that explains why they think that. (5-8 sentences)

Technology!



Famous Inventions from the 1800s

In your group, you will research one of the following inventions using the internet. As you do your research, complete the worksheet. After you finish the worksheet, you will write a paragraph that summarizes your invention and the impact it had on American life and create a poster for your object. These posters and your summary paragraphs will be presented to the class and everyone will have the opportunity to learn about all of these inventions. All students in the group are expected to contribute. You will be graded on your participation in the group and the materials you help to create.

Inventions from the 1800s:

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Sewing machine (Isaac Singer)

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Famous Inventions from the 1800s

Names: _____

_____ Date: _____

Complete the following worksheet as you research your object.

Who invented your object? _____

When was it invented? _____

What did your object do?

How did this object change Americans' lives? _____

Did this object affect American history? Explain.



Poster Guidelines

Directions: Create an advertisement poster for your object that captures what your object does and how it could change Americans' lives. Your poster should include a title and demonstrate that effort and thought was put into creating it.