

**Innovations and Automobiles
Second Grade**

**Developed for
Library of Congress Midwest Region
“It’s Elementary: Teaching with Primary Sources” 2011**

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Overview:

The purpose of this lesson is to explore the impact of automobiles and the innovations that have changed them over time.

Standards:

Kansas History, Government, Social Studies Standards (2013)

Standard #4 Societies experience continuity and change over time

Benchmark: 4.1 The student will recognize and evaluate continuity and change over time and its impact on individuals, institutions, communities, states, and nations.

Kansas College and Career Readiness Standards

Reading

RI.2.1 – The student asks and answers such questions *as who, what, where, when, why, and how* to demonstrate understanding of key details in a text.

RI.2.5 – The student knows and uses various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.

Writing

W.2.8 – The student recalls information from experiences or gathers information from provided sources to answer a question.

Speaking and Listening

SL.2.1(a-c) – The student will participate in collaborative conversations with diverse partners about *grade 3 topics and texts* with peers and adults in small and larger groups.

Objectives

Content

- The student will identify how the innovation of automobiles improved and changed lives in Kansas today.
- The students will identify ways in which automobiles have changed over the years.

Skills

- The student compares and contrasts life before and after the innovations of the automobiles

Essential Questions:

- How is transportation with automobiles used?
- In what ways have automobiles changed life of Kansans?
- How has the automobile changed over time?

Resource Chart

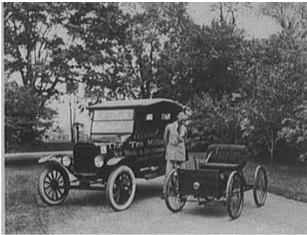
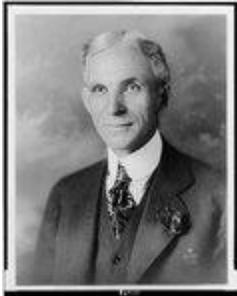
Image	Description	Citation	URL
	<p>First and ten millionth Ford</p>	<p>Repository: Library of Congress Prints and Photographs Division Washington, D.C. 20540 USA 1924 June 4.</p>	<p>http://www.loc.gov/pictures/resource/det.4a27901/</p>
	<p>Henry Ford</p>	<p>Prints and Photographs Division, Library of Congress.</p> <p>Hartsook, photographer. Henry Ford, head-and-shoulders portrait, facing slightly left, 1919</p> <p>Photograph taken about 1919</p>	<p>http://www.americaslibrary.gov/jb/civil/jb_civil_ford_1.html</p>
	<p>The Assembly Line This picture goes with the story from the Library of Congress about Henry Ford and the automation of automobiles. This web site provides some facts about Henry Ford and includes pictures and a short video clip.</p>	<p>Prints and Photographs Division, Library of Congress. Reproduction Number LC-D420-2876 DLC.</p> <p>Assembly, 1923.</p>	<p>http://www.americaslibrary.gov/jb/civil/jb_civil_ford_3.html</p>

Image	Description	Citation	URL
	<p>Busses at Yellowstone A University of Chicago Department of Botany Field, Ecology class in autos, Yellowstone National Park, Wyoming</p>	<p>American Environmental Photographs Collection, [AEP Image Number, e.g., AEP-MIN73], Department of Special Collections, University of Chicago Library.</p>	<p>http://memory.loc.gov/cgi-bin/query/r?amem/aep:@field(DOCID+@lit(aep004331))</p>
	<p>Two men working on an automobile The men are outside of an automobile plant. There is another automobile in the background</p>	<p>Repository: Library of Congress Prints and Photographs Division Washington, D.C. 20540</p> <p>It was taken about in 1906.</p>	<p>http://www.loc.gov/pictures/item/2002707037/</p>
	<p>Chrysler automobile, Marysville, Kansas An informal portrait of a man and a boy, dressed as a chauffeur, seated on the bumper of a new Chrysler automobile parked in front of the Lipscomb Blocker Motor Company at 704 Center Street in Marysville, Kansas. The man is the owner of the new automobile.</p>	<p><i>Kansas Memory</i> Item 21093 Kansas Historical Society Richardson/Hawkins Collection</p> <p>Creator: Hawkins, Omar F. (Omar Finlay), 1890-1967</p> <p>Date: September 7, 1929</p>	<p>http://www.kansasmemory.org/item/210931/page/1</p>
	<p>Chrysler automobile, Marysville, Kansas An informal portrait of an owner of an automobile with a boy, dressed as a chauffeur, seated on the bumper of a new Chrysler automobile parked in front of the Lipscomb Blocker Motor Company at 704 Center Street in Marysville, Kansas.</p>	<p><i>Kansas Memory</i> Item 21093 Kansas Historical Society Richardson/Hawkins Collection</p> <p>Creator: Hawkins, Omar F. (Omar Finlay), 1890-1967</p> <p>Date: September 7, 1929</p>	<p>http://www.kansasmemory.org/item/210931/page/1</p>

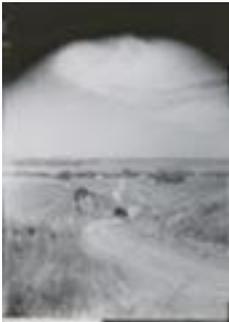
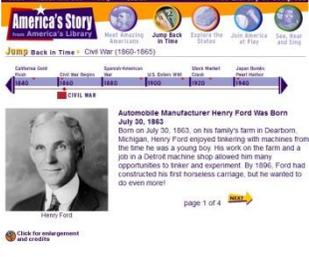
Image	Description	Citation	URL
	<p>Highway K-10 A photograph showing an automobile traveling on K-10, a 38-mile state highway that passes through the cities of Lawrence, Eudora, DeSoto, Olathe and Lenexa. This road provides a toll-free alternate route to the Kansas Turnpike portion of Interstate 70.</p>	<p><i>Kansas Memory</i> Item Number: 210200 Kansas Historical Society</p> <p>Date: Between 1930 and 1940</p>	<p>http://www.kansasmemory.org/item/210200/page/1</p>
	<p>Automobile 1900-1912 View of A. E. Blake seated in an automobile, a man standing next to that automobile, a man seated in the driver's seat of a horse-drawn wagon, and two young girls and a dog standing next to the wagon. All are present in an unidentified field in Seward County, Kansas.</p>	<p><i>Kansas Memory</i> Item Number: 12050 Kansas Historical Society</p> <p>Seward County Historical Society: F. M. Steele collection</p>	<p>http://www.kansasmemory.org/item/12050/page/1</p>
	<p>Automobile on country road, Russell County, Kansas One side of a stereograph showing three people in a car traveling along a country road in Russell County, Kansas. Also visible in the background are a house, a windmill, farm buildings, open fields, groves of trees, and a long bridge that may cross the Smoky Hill River.</p>	<p><i>Kansas Memory</i> Item Number 1481 Kansas Historical Society</p> <p>Creator: Halbe, L. W. (Leslie Winfield), 1893-1981</p> <p>Date: September 18, 1910</p>	<p>http://www.kansasmemory.org/item/1481</p>

Image	Description	Citation	URL
	<p>Centennial parade, Topeka, Kansas Date: 1954</p> <p>This photograph shows a view of the centennial parade, Topeka, KS. In describing Kansas transportation past and present, the automobile is an important innovation. Use this photograph in a sequence of how cars have changed over time.</p>	<p><i>Kansas Memory Item</i> Number 208095 Kansas Historical Society</p>	<p>http://www.kansasmemory.org/item/208095/page/1</p>
<p>Innovations and Automobiles Rose Myers 2nd Grade Indian Hills Elementary School</p> <p>Overview: The purpose of this lesson is to explore Henry Ford and the innovations he made with automobiles and how these innovations impacted Kansas.</p> <p>Standards: Kansas Standards for History, Government and Social Studies (2013) Standard 6c. Societies experience continuity and change over time. Benchmark 1. The student will recognize and evaluate continuity and change over time and its impact on individuals, institutions, communities, states, and nations.</p> <p>Kansas College and Career Ready Standards (Writing) W.2.2 The students will recall information from experiences or gather information from provided sources to answer a question.</p> <p>Kansas College and Career Ready Standards (Reading) R.2.2 The students will ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text.</p>	<p>Innovations and Automobiles--Power Point</p>	<p>Attachment to lesson plan</p>	
	<p>American's Story Jump Back in Time "Henry Ford"</p> <p>Biography of Ford</p>	<p><i>Library of Congress</i></p>	<p>http://www.americaslibrary.gov/jb/civil/jb_civil_ford_1.html</p>

Lesson Plan:
Day 1

1. Activate prior knowledge by discussing with students different forms of transportation. This can include past transportation. (i.e., Horse and wagon, steamboat, train, walking, airplanes, and bicycling)
2. A power point, **"Innovations and Automobiles"** [see attachment] is used to introduce the hidden photograph in this lesson. Slides 3 through 7 are used as you uncover the photograph (**Teacher Resource:** First and Tenth Millionth Ford). Each consecutive slide removes a square to reveal more of the picture. This lesson could also be done on a SMART Board or by using a hard copy photo.
 - Explain to the students that hidden behind the squares is a photograph (slide 3). As they go through each slide they will find out different things about the photograph.
 - Move to slide 4 in which the first square is removed. Discuss what the children see (i.e., trees, tree limbs, sky). Students may note that the picture is black and white and might be old.

- Move to slide 5 in which the second square is removed and discuss what they see now (i.e., a man, he is standing by something)
 - Move to slide 6 in which the next square is removed and discuss what the children see now (i.e., a small car, the man is looking at the car, the car looks old)
 - Move to slide 7 in which the last square is removed. Discuss the picture (i.e., now there are two cars, the second car is bigger, it has words on it)
3. Move to slide 8 with the picture of Henry Ford and information about him. (Teacher Resource Henry Ford) Talk to the students about Henry Ford and the innovation that changed how automobiles were made. Slide 9 shows a photograph of an automobile on the assembly line. (Teacher Resource “The Assembly Line”)
Build vocabulary with the words automobile, invention, innovation, and automation.

Day 2

Before beginning day 2 use the teacher resource page to make large copies of each of the photographs.

1. Begin by reviewing and discussing knowledge learned about Henry Ford and innovations he used.
2. Divide the students into small groups.
3. Give each group of students a photograph. (**Resource Chart**) Allow time for them to look at the photograph and discuss with their groups things they notice about it
4. Show students the photograph from yesterday on the **Power Point: Innovations and Automobiles**. (slide 9) Discuss the sentence below the picture. Let them know it is called a caption. Discuss how the caption lets people know what is going on in the picture.
5. Tell students that each group must read through a page called “**What is the Caption?**” and decide which caption goes with their photograph. Children will cut the caption out that they choose and glue it under the picture.
6. Pass out the “**What is the Caption?**” page and give students time to read and decide the correct caption for their pictures.
7. Have each group come to the front of the room, show their picture, and read the caption that goes with the picture.
8. Have the students write at least three sentences about “**How Have Automobiles Changed Lives?**” and draw a picture to go with what they wrote.

Assessment:

1. Evaluate how students completed the question “**How Have Automobiles Changed?**” worksheet.

For the Teacher:

About Henry Ford

Automobile Manufacturer Henry Ford Was Born

July 30, 1863

Born on July 30, 1863, on his family's farm in Dearborn, Michigan, Henry Ford enjoyed tinkering with machines from the time he was a young boy. His work on the farm and a job in a Detroit machine shop allowed him many opportunities to tinker and experiment. By 1896, Ford had constructed his first horseless carriage, but he wanted to do even more!

"I will build a car for the great multitude," Ford proclaimed. At first the automobile had been a luxury item only for the wealthy. Henry Ford wanted to create a car that ordinary people could afford, and in October 1908, he did it. The Model T sold for \$850. In nineteen years of manufacture, Ford lowered the price to \$260 and sold 15 million cars in the U.S. alone.

How did he make the Model T so inexpensive?

Ford invented the modern assembly line. He doubled his workers' wages and cut the workday from nine to eight hours. Ford did this to ensure quality work and allow a three-shift workday. As a result, the company was able to make Model T's twenty-four hours a day.

The automobile altered American society forever, changing where and how we lived. As more Americans owned cars, the organization of cities changed. The United States saw the growth of the suburbs and the creation of a national highway system. Americans were thrilled with the possibility of going anywhere, anytime. Ford witnessed many of these changes during his lifetime. In his later years, he spent most of his time working on Greenfield Village, a restored rural town modeled after his memories of Dearborn during his youth. Next time you are out on the road, try to imagine life without cars. Ask your family and friends how different they think the world would be?

Taken from the Library of Congress
America's Story from America's Library
Jump Back in Time
The Civil War 1860-1865

http://www.americaslibrary.gov/jb/civil/jb_civil_ford_1.html

Vocabulary:

1. automobile--passenger carrying vehicle that usually has four wheels and is designed to carry a small number of passengers
2. automation--replacement of human workers by technology, mechanical or electronic equipment
3. innovations--a new idea, method, or machine; the invention or use of new idea
4. invention--a thing that someone has created, creating of something new
5. caption--a short description or title telling about a picture or illustration

What is the Caption? Innovations and Automobiles

These people are traveling by bus from the University of Chicago. They are visiting Yellowstone National Park in Wyoming.

This is a picture of two men working on an automobile. They are outside of an automobile plant. It was taken about in 1906. There is another automobile in the background.

This is a picture of a man and a boy seated on the bumper of a new car. This car is a Chrysler. This picture was taken 1929. They are in Marysville, Kansas.

This is a picture of an automobile that is traveling on Highway K-10 between Lawrence and Lenexa in the state of Kansas. It was taken between the years 1930 and 1940.

This is a picture of a man who is driving an automobile. There is also a picture of a horse-drawn wagon in the picture. This picture takes place in Seward County, Kansas. It takes place between the years 1900 and 1912.

This picture is on September 18, 1910. This car is traveling along a country road in Russell County, Kansas. The road they are traveling on is very dusty.

This is a picture of downtown Topeka, Kansas in 1954. This car is in the Centennial parade. The car is a white convertible. There are people watching the parade.

Key

**Innovations and Automobiles
“What is the Caption?”**

	<p>These people are traveling by bus from the University of Chicago. They are visiting Yellowstone National Park in Wyoming.</p> <p>Busses at Yellowstone</p>
	<p>This is a photo of two men working on an automobile. They are outside of an automobile plant. It was taken about in 1906. There is another automobile in the background.</p> <p>Two men working on and automobile</p>
	<p>This is a picture of a man and a boy seated on the bumper of a new car. This car is a Chrysler. This picture was taken 1929. They are in Marysville, Kansas.</p> <p>Chrysler automobile</p>
	<p>This is a photo of an automobile that is traveling on Highway K-10 between Lawrence and Lenexa in the state of Kansas between the years 1930 and 1940.</p> <p>Highway K-10</p>
	<p>This is a photo of a man who is driving an automobile. There is also a horse-drawn wagon in the photo. This picture takes place in Seward County, Kansas. It takes place between the years 1900 and 1912.</p> <p>Automobile 1900-1912</p>
	<p>This photo was taken September 18, 1910. This car is traveling along a country road in Russell County, Kansas. The road they are driving on is very dusty.</p> <p>Automobile on a country road -1910</p>
	<p>This photo is of downtown Topeka, Kansas in 1954. This car is in the Centennial parade. The car is a white convertible. There are people watching the parade.</p> <p>Downtown Topeka</p>

Student worksheet

**Innovations and Automobiles
How Have Automobiles Changed Lives?**

Name _____

Date _____
