

44 We must Neutrality helps the oppressor, never the victim. Silence

Allegiances & Alliances always take sides. encourages the tormentor, tormented. ~Elie Wiesel











Industry, Transportation, and Technology: 1865-1895

Characters and Connections:

Horace Hunley and the Submarine, 1864 John B. Stetson and the Stetson Hat, 1865 Alfred Nobel and Dynamite, 1866 Transcontinental Railroad joined in Utah, 1869 John D. Rockefeller and Standard Oil Company Levi Strauss and Blue Jeans, 1873 Nikolaus Otto and Internal Combusion Engine, 1876

Alexander Graham Bell and the Telephone, 1876 Thomas Edison and the Phonograph, 1877 The Brooklyn Bridge, 1883 J. K. Starley and the Rover Bicycle, 1885 Karl Benz and the Motorwagen, 1886 John Dunlop and Inflatable Tires, 1888

Language Arts:

Read about a Character and/or Connection.

Write a summary or an outline about a C or C.

Write a story or poem about a C or C.

Read a speech or book written by a C. Share.

Write about why this Character is a hero?

Read and summarize "Rails, Zones, and Bulbs" in Story of the World Volume 4, Chapter 8 [SW 4:8].

Social Sciences:

Make a map to illustrate all C or C listed. Create a timeline to show all C or C listed. Read a biography on a C or C. Share. Create a timeline for one Character's life. Create a map for one Character's life or city.

Math:

How much did a Stetson hat cost in 1865? today? In today's dollars how much did that hat really cost? How much did a pair of Levi jeans cost in 1873? How much does a pair of Levi jeans cost today? How many miles of track were laid by each side for the Transcontinental Railroad? feet? The total length in inches for the Brooklyn Bridge?

Physical Sciences:

How does a submarine work?
Learn all you can about dynamite. Share.
What does oil look like after it is drilled?
How is oil refined? What are some byproducts?
How does a combustion engine work?
Learn about bridges and how they work. Build a bridge.
Share what you learned.

Fine Arts:

Draw a picture about a Character &/or Connection.

Paint a picture about a C or C.

Sculpt or create a replica of a C or C.

Learn how phonographs work and how phonograph recordings were made.

Listen to an early phonograph recording.

Watch "Brooklyn Bridge" PBS documentary.

Life Skills:

Learn and present basic telephone manners.
Take a bike ride. Share your adventures.
Learn how to change a flat tire. Practice. Teach.
Recycle old jeans by sewing them into a skirt or blanket.

Best Books:

Farmer Boy by Laura Ingalls Wilder
The Story of Thomas Alva Edison by Margaret Cousins
Thomas Edison for Kids: His Life and Ideas, 21 Activities by Laurie Carlson
The Great Bridge by David McCullough

Industry, Transportation, and Technology: 1896-1920

Characters and Connections:

Dow Jones Average first published, 1896
Electric Cars made up 25% of car sales in 1900
Orville and Wilbur Wright successful flight, 1903
Henry Ford, Ford Motor Company, Model-T, 1903/1908
New York Subway opens 1904
First Electric Start Automobile Company, 1911
Marie Curie, Nobel Prize in Chemisty, 1911

Ford Motor Co. assembly line and \$5/day, 1913/1914
The Panama Canal opens, 1914
WWI and Zeppelins, 1915
WWI and Poison Gas, 1915
Thompson Submachine Gun, 1916
Creation of British Royal Air Force and use of Airplanes in WWI, 1918

Language Arts:

Read about a Character and/or Connection.
Write a summary or an outline about a C or C.
Write a story or poem about a C or C.
Read a speech or book written by a C. Share.
Write about why this Character is a hero?

Read "Power," a poem about Marie Curie by Adrienne Rich, Discuss this poem and share it.

Social Sciences:

Make a map to illustrate all C or C listed. Create a timeline to show all C or C listed. Read a biography on a C or C. Share. Create a timeline for one Character's life. Create a map for one Character's life or city.

Math:

What were the stock prices of the 12 companies listed on the Dow Jones Average in 1896? What is General Electric's stock price today?

What were Ford Motor Company workers paid before the increase in daily wage to \$5.00/day? What is the federal minimum wage/hour today? per day?

Physical Sciences:

How were railways electrified for subways? Share.

How do electric cars work?

Learn about flight and early airplanes.

What ingredients were used in WWI poison gas? Learn about the Periodic Table, Marie Curie's discovery of radium and polonium, and/or x-rays?

How are subways built?

Fine Arts:

Draw a picture about a Character &/or Connection.

Paint a picture about a C or C.

Sculpt or create a replica of a C or C.

Watch a documentary about a C or C. Share.

Learn how to make a variety of paper airplanes. Have a contest to determine the strengths and weaknesses of the different paper airplane types.

Life Skills:

Learn about the stock market, the Dow Jones Average, and other averages like the S &P 500.

Practice "investing" in the stock market by playing an on-line game or "buying" and "tracking" and "selling" the stock of your choice on paper or on a computer spreadsheet.

Take a field trip to an air museum.

Best Books:

The Wright Brothers for Kids by Mary Kay Carson

Madame Curie by Eve Curie (there is also a Reader's Digest version of this book, © 1966)

Cheaper by the Dozen by Frank B. Gilbreth, Jr. and Ernestine Gilbreth Carey

The Path Between the Seas: The Creation of the Panama Canal, 1870-1914 by David McCullough

Industry, Transportation, and Technology: 1921-1945

Characters and Connections:

Radios and Public Radio Broadcast Stations Albert Einstein, Nobel Prize in Physics, 1921 Edwin Hubble discovers other galaxies, 1924 Robert H. Goddard, Liquid Fuel Rocket, 1926 Charles A. Lindbergh, Flight across Atlantic, 1927 Philo T. Farnsworth, Electronic Television, 1927 Iron Lung invented by Drinker & Shaw, 1928 Freon (1929), Fiberglass, Teflon, Nylon (1938)

Tiltrotor invented, 1930
Bathysphere completes successful dive, 1930
Landing Vehicle Tracked (LVT) invented, 1933
George Sibbitz, First Relay-Based Computer, 1937
Atoms, Neutrons (1932), Nuclear Fission (1938)
Xerography, 1938
Bazooka invented, 1942

Language Arts:

Read about a Character and/or Connection.
Write a summary or an outline about a C or C.
Write a story or poem about a C or C.
Read a speech or book written by a C. Share.
Write about why this Character is a hero?

Social Sciences:

Make a map to illustrate all C or C listed. Create a timeline to show all C or C listed. Read a biography on a C or C. Share. Create a timeline for one Character's life. Create a map for one Character's life or city.

Math:

Learn about early computers. How were they programmed? How did they calculate math? How many miles was Lindbergh's flight across the Atlantic? How many hours was Lindbergh's flight? How many miles per minute did he fly? How high in inches did Goddard's first rocket go?

Physical Sciences:

Study Hubble's law of the expanding universe. Share. Learn about radio frequencies and transmittors. Learn about the history of television. How are images and sound transmitted to TV now? How does a rocket work? Share. Experiment. Create a model of an atom. How did the iron lung work? Share.

Fine Arts:

Draw a picture about a Character &/or Connection.

Paint a picture about a C or C.

Sculpt or create a replica of a C or C.

Watch a documentary about a C or C. Share.

Listen to early radio broadcasts like Roosevelt's Fireside Chats, the 1934 World Series, or various World War II broadcasts

Life Skills:

What is xerography? Learn. Practice. Learn proper keyboarding techniques. Practice. Watch this video on how computers work or this video. Try your hand at some kid-friendly computer programming.

Best Books:

The Spirit of St. Louis by Charles Lindbergh (abridged version available in Reader's Digest Family Treasury of Great Biographies, Volume VI)

Albert Einstein: Young Thinker by Marie Hammontree (Childhood of Famous Americans series) The Story of Science: Einstein Adds a New Dimension by Joy Hakim

Allegiances and Alliances: 1865-1895

Characters and Connections:

Ku Klux Klan formed, 1865 Otto Von Bismarck and the Prussian Wars [SW 4:7] Alaska purchased from Russia, 1867 India formally made part of British Empire, 1877 British forces in Afghanistan & South Africa [SW 4:12] The Orient Express, 1883 The Statue of Liberty, 1885 Presidents of the United States of America Andrew Johnson, 1865-1869 Ulysses S. Grant, 1869-1877 Rutherford B. Hayes, 1877-1881 James A. Garfield, 1881 Chester A. Arthur, 1881-1885 Gover Cleveland, 1885-1889, 1893-97 Benjamin Harrison, 1889-1893

Language Arts:

Read about a Character and/or Connection.
Write a summary or an outline about a C or C.
Write a story or poem about a C or C.
Read a speech or book written by a C. Share.
Write about why this Character is a hero?
Read a campaign speech by a president.
Read an inauguration speech by a president.

Social Sciences:

Make a map to illustrate all C or C listed.
Create a timeline to show all C or C listed.
Read a biography on a C or C. Share
Create a timeline for one Character's life.
Create a map for one Character's life or city.
Read "Reasons for Being a Republican" by Grant.
Read "Duties of American Citizenship" 1883, T. Roosevelt

Math:

How much did the U.S. pay for Alaska?
How many square miles were purchased? feet?
Calculate the price per square mile? feet?
How many miles is the Orient Express?
How long did it take to travel the Orient Express in hours? in minutes?
How many stairs are in the Statue of Liberty?

Physical Sciences:

Learn how trains worked in the 1800s. Share.
Learn how trains today work. Share.
Learn which trains are the fastest today and why.
Learn about the weather in India. How does is vary by location?

Learn about the topography (terrain) of Afghanistan. Learn about Bismarck's war strategies & weapons.

Fine Arts:

Draw a picture about a Character &/or Connection.

Paint a picture about a C or C.

Sculpt or create a replica of a C or C.

Watch a documentary about a C or C. Share.

Memorize a poem or speech. Present.

Read "The Celebrated Jumping Frog of Calaveras County" by Mark Twain.

Watch 1938 movie Adventures of Tom Sawyer.

Life Skills:

Take a field trip on a train.
Visit a train museum or model train exhibit.
If in Utah, visit Promontory Point.
If in NYC, visit the Statue of Liberty.
If in Missouri, visit the Mark Twain Museum.

Best Books:

Adventures of Tom Sawyer by Mark Twain

Murder on the Orient Express by Agatha Christie