

5.4

The Beginning of the Industrial Revolution



As a Young Historian, I will be able to...

- Summarize the key developments in the transportation revolution of the early 1800s.
- Analyze the rise of industry in the United States in the early 1800s.
- Describe some of the leading inventions and industrial developments in the early 1800s.

New Technology Revolutionizes Transportation

Slow technology made moving goods VERY expensive across the Nation

Turnpikes- roads for which users had to pay a toll

National Road- crushed rock road funded by the government from Maryland to the Ohio River

Steamboats were developed and made it easier to travel against currents upstream

New Tech

Steam-powered ships made trips much faster across the Atlantic ocean

**Canal networks were created to link farms to cities.
Erie Canal connected Lake Erie to the Hudson River**

The Erie Canal made New York City the nations greatest commercial center

Railroads were created, complete with steam powered engines, to pull heavy loads

Industrial Revolution

Developments in technology that changed the nations economy, culture, social life, & politics

Industrial Revolution began in Britain, & tried to ban exports of machinery & workers...

Samuel Slater- Moved to the U.S. & built the nations first water-powered textile mill in 1793 at Pawtucket, Rhode Island.

Francis Cabot Lowell- created the Boston Associates and built a mill & the town of Lowell.

Factories

Lowell Girls- Girls who worked in closely supervised boardinghouses.

Machines increased the pace of work & divided labor into smaller tasks

Poor women would make clothes out of the fabric created for \$1 a week

In Massachusetts they made shoes

Innovations in Industry & Agriculture

Interchangeable parts- identical components that could be used in place of one another

Eli Whitney- introduced this idea, proposed making muskets this way rather than by hand

Elias Howe & Isaac Singer created the sewing machine, interchangeable parts made creation of machines FAST

Samuel F.B. Morse- invented the electric telegraph & Morse code

Farm production doubled!!!