



Man, Machine and Manufacturing

Today's students are comfortable with speed. They are growing up in a world where technology is constantly changing their environment and daily lives.

Leverage the assets of The Henry Ford, and give students a firsthand look at how this evolution — what textbooks call the Industrial Revolution — got started in America and how hundreds of years ago, young people just like them also felt that technology was rapidly changing the world around them.

Watch the laborious process of maintaining crops by hand at a Georgia plantation in Greenfield Village. Then ask students to compare the workloads when they see horse-drawn farm machinery plow fields at Firestone Farm and carding wool by hand at the Daggett Farmhouse. Your students can continue their exploration on how the carding process changes at an operating mechanical carding mill in Liberty Craftworks.

In Henry Ford Museum, examine the Newcomen engine, the first machine to

harness the power of steam, and encourage students to brainstorm about how our ability to channel different forms of energy changed — and will continue to change — the rules of manufacturing.

Participate in the Ford Rouge Factory Tour, and let students experience how a century's worth of technology and manufacturing prowess created an assembly line that can pump out hundreds of vehicles per day.

Use The Henry Ford's on-site enhancements and online resources. Let your students make the connection that this revolution is ongoing and evolving, now steered by rapid changes in information and communication. America's steady pace of innovation will only continue if it is fed by their ideas, solutions and sense of creativity.

America's Industrial Revolution



◀ Robotic welding, a dramatic example of an automated process, combines with human expertise, to build the F-150 pickup trucks at the Rouge complex.

▲ Hear firsthand about man's first flight during Home from Kitty Hawk in Greenfield Village.

▲ Students investigate energy with The Tower of Power in Henry Ford Museum. Use History Hunter: Investigating Energy and help your students dive deeper into the Industrial Revolution.

RESOURCES

ON-SITE PROGRAMS

Flexing for the Future

Guided program at Ford Rouge Factory Tour; Free with admission

Edison's Light Fantastic

Dramatic presentation in Greenfield Village; Free with admission; Early May through mid-June and Fridays in October

Home from Kitty Hawk

Dramatic presentation in Greenfield Village; Free with admission; Early May through mid-June and Fridays in October

Elijah: the Real McCoy

Dramatic presentation in Greenfield Village; Free with admission; Early May through mid-June

FIELD TRIP ENHANCEMENTS

America's Industrial Revolution: Impact on Technology and Innovations ⓘ

Self-guided itinerary for Greenfield Village and Henry Ford Museum, grades 4-6 and 7-12

America's Industrial Revolution: Past, Present and Future ⓘ

Self-guided itinerary for Greenfield Village and Ford Rouge Factory, grades 4-6 and 7-12

History Hunter: Investigating Energy in Henry Ford Museum ⓘ

The Ford Rouge Complex: A Case Study in Industrialization ⓘ

Teacher Guide for Ford Rouge Factory Tour

CLASSROOM RESOURCES

America's Industrial Revolution Lesson Plans ⓘ

Science, Social Studies and Language Arts, grades K-12

Visit [thehenryford.org/resourcebank](https://www.thehenryford.org/resourcebank) for resource descriptions and curriculum connections.