

check out
DRIVING AMERICA—
THE **ALL-NEW** EXHIBIT IN
HENRY FORD MUSEUM.



WHY THE HISTORY OF TRANSPORTATION MATTERS TODAY

A world without cars or planes or trucks?

Unthinkable. Or at least it must seem that way to your students. It's not an unreasonable reaction. They've never known a day without interstate highways or transoceanic flights or road trips.

So consider how difficult it must be for them to grasp the significance of the Model T. Or of the spindly little plane that the Wright brothers flew on

the beach in North Carolina.

"It really is a difficult concept," says Bob Casey, **The Henry Ford's** curator of transportation and a noted authority on the Model T. "If you're 10 years old, this world – the world of cars and jets and readily available transportation – has been around your whole life. It's like air – you just assume it's there. You never think of how it got that way."



Henry Ford stands with the Quadricycle outside the Bagley Avenue Workshop, 1933. ID# THF22231.
From the collections of The Henry Ford.

Here at **The Henry Ford**, your students can experience the remarkable evolution of transportation firsthand. They'll also be able to see that, with the advent of the Industrial Revolution, the evolution of transportation abruptly changes gears. The horse is eclipsed by steam-powered locomotives and, 100 years later, by diesel power. That's all here, too, from the Stephenson's Rocket, built in 1829 for the Liverpool and Manchester Railway, and the steam locomotives pulling passenger cars in *Greenfield Village* to the Allegheny locomotive that looms so large in *Henry Ford Museum*.

"Each change in transportation altered the country in its own way," Casey says. "But ultimately, transportation is freedom. The more sophisticated and individual transportation got, the greater our freedom was. The story of transportation really is the story of America."

The Henry Ford's new 80,000-square-foot exhibit *Driving America* — opening in early 2012 — is America's greatest automobile exhibition. It will highlight the automobile's impact on our lives and the innovation it generated in every aspect of society. With its 18 interactive stations, it will allow greater access to our collection of more than 115 vehicles and 70 cases of artifacts. Old favorites such as the vintage McDonald's sign and the mid-20th-century Holiday Inn room will remain. And for the very first time, Lamy's Diner, with its polished chrome doors, will actually serve food to Museum visitors.

When completed, the exhibit will have updated story lines, improved layouts and displays, and new arrangements of vehicles throughout.

"Educational goals have been an integral part of the concept, design and interpretation of this new exhibit," says Paula Gangopadhyay, director of education. "Learners of all types will have an unduplicated opportunity to absorb comprehensive information in a fun and engaging manner. The exhibit team has made sure that our visitors are empowered to critically think and apply the knowledge gained through reinforcing interactive activities."

Along with the redesign, **The Henry Ford** is digitizing hundreds of other artifacts in its transportation collections in order to enhance the visitor experience and provide greater access to our enormous collection.

"So when you access the digital record of a particular car, you will be offered all sorts of information about that car," says

Mike Butman, **The Henry Ford's** chief information officer. "And since there is likely to be more information than any one person can absorb, you will be able to take your digital experience with you to access online at home, at school or on a smartphone."

But how do you present all of that information in a way that makes it relevant to today's young people? How can it help teachers in the classroom? To facilitate "connected and comprehensive learning," **The Henry Ford** has developed a collection of innovative K-12 digital curriculum and project-based learning tools on the broad theme of "Transportation in America." We have named those tools DigiKits and ExhibitBuilder.

Educator DigiKits offer a teacher guide and a full-length unit plan with page after page of supplemental resources. The seven DigiKits — all equipped with digital media — are great pre-visit tools to enhance the classroom experience. Best of all, they are aligned to meet curriculum needs in social studies and science.

ExhibitBuilder is a build-your-own online exhibition module that works as a great post-visit tool. It helps students to think critically, synthesize and apply their learning in creative online portfolios and helps teachers to assess what their students have learned.

"I know that every time I went on a field trip, I wished that I had done more to prepare," says Catherine Tuczek, a former high school teacher and now curator of education at **The Henry Ford**. "I wish I'd had these DigiKits when I was teaching. And since they are all based on Michigan and national standards, they help with everything from state testing to justifying the field trip to school administrators or the PTA."

"The *Driving America* exhibit," says Gangopadhyay, "supplemented with substantive and unique educational materials like the DigiKits and ExhibitBuilder, brings us full circle and truly makes **The Henry Ford** a distinctly superior, relevant and unique educational resource. Teachers and students will be thrilled to have such great on-site, off-site and online learning experiences."

Armed with a vast array of resources like these, the opportunities for learning are greatly expanded. Learning with **The Henry Ford** doesn't need to stop when your field trip ends. With luck, these resources will be the beginning of new discussions. And more stories. And more exploration. ■

on-site programs

NEW!

COMING Winter 2012! Driving America

PERMANENT EXHIBIT

FREE with Museum admission

Our automotive choices have changed the way we live in America. The Henry Ford's newest permanent exhibit explores the automobile's impact on family and community life, the role of government in transportation, and the interactions of automobile producers and consumers. Science, technology, engineering and math connections enhance the learning—a great interdisciplinary field trip! This exhibit will empower you and your students to see how your choices today can impact the future.

Location: Henry Ford Museum

Program Length: Flexible

Henry's Assembly Line

GUIDED ACTIVITY

FREE with Museum admission

Learn about the assembly line by working on one! In this hands-on program, your students assemble miniature wooden Model Ts using the station and moving assembly line methods.

Location: Henry Ford Museum

Offered: Daily year-round

Program Length: 20 minutes

Build a Model T

GUIDED ACTIVITY

FREE with Museum admission

Lend a hand in our daily build of a 1917 Model T. No experience required!

Location: Henry Ford Museum

Offered: Daily year-round

Program Length: Flexible

Historic Rides in Greenfield Village

Take your students on a ride to explore historic modes of transportation, including the Weiser Railroad, horse-drawn omnibus, Model T and the carousel. Additional fee required; see page 9 for more information.



HENRY FORD AND INNOVATION

classroom resources

You Can Be an Innovator... Like Henry Ford!

EDUCATOR DIGIKIT

Grades 3-5

Explore Henry Ford's world-changing innovation, the Model T, and its enduring influence. Inspire students to imagine, take risks and persevere as Henry Ford did.

Impact of the Model T — Then and Now

EDUCATOR DIGIKIT

Grades 9-12

How do people create society-changing innovations? What are the causes and consequences of those innovations? Examine these important questions through a case study of Henry Ford, his Model T and the past, present and future of the automobile industry.

Model T Road Trip

INTERACTIVE MODULE

Students follow a fictional family's adventures as they shop for, buy, drive and plan a vacation in a brand-new Model T, in this online interactive module. Includes online lesson plans with selected primary sources.

field trip enhancements

Moving On, Settling In

FIELD TRIP HELPER
FOR GREENFIELD VILLAGE

Grades 3-5

Designed to help students think more critically about migration patterns from South to North and rural to urban, and the associated pushes and pulls.

Explore the Model T in Henry Ford Museum and Greenfield Village

SELF-GUIDED ITINERARY

Discover the artifacts, exhibits and sites associated with the development of the Model T.

Location: Henry Ford Museum and
Greenfield Village



History Hunters: Transportation in America

SCAVENGER HUNT

Location: Henry Ford Museum and
Greenfield Village

Investigating the Model T

Check thehenryford.org/education for the latest History Hunters.

TRANSPORTATION: PAST, PRESENT AND FUTURE

classroom resources

Transportation Systems

EDUCATOR DIGIKIT

Grades 8-12

Our American transportation systems demonstrate how our cultural attitudes affect everyday life. Students explore a variety of topics, including the movement of goods and people, the consumption of goods, the financing of public goods and services, as well as the imagining of transportation systems of the future.

Early 20th-Century Migration

EDUCATOR DIGIKIT

Grades 3-5

Students discover and discuss why people were pulled from Europe and the American South by the promise of jobs to work in factories in the Northern U.S. — especially Michigan's automobile factories — and what their new lives were like. Students also will explore the connections between 20th-century migration and their lives today.

Podcasts

Have your students listen to *Henry Ford Academy* student-developed podcasts that examine compelling transportation issues such as alternative fuels, transportation networks and more through rap, talk shows and other fun formats.

Moving to Michigan: Immigration, Migration and Transportation

EDUCATOR DIGIKIT

Grades 9-12

The growth of industry in the Northern U.S. resulted in an unprecedented cultural mosaic, especially in the Detroit area. Learn about the pulls and promises of life as an autoworker and evaluate the continuing impact on workers' lives in today's manufacturing and economic climate.



Visit thehenryford.org/education/resourcebank.aspx for curriculum connections.



RACING IN AMERICA

classroom resources

Science, Life Skills and Innovation in American Auto Racing

EDUCATOR DIGIKIT 

Grades 3-8

Explore how American auto racing uses scientific concepts such as force, change in motion, speed and energy to make technological improvements. Learn about scientific innovations, teamwork and even the risks of racing through oral histories from race car drivers, engineers, mechanics and owners.

Physics, Technology and Engineering in Auto Racing

EDUCATOR DIGIKIT 

Grades 9-12

Explore how the principles of physics — net force, acceleration, momentum — are an integral part of American auto racing. Examine how racing innovators achieve major technological advancements and learn about scientific innovations, teamwork and even the risks of racing through oral histories from race car drivers, engineers, mechanics and owners.

field trip enhancements

Evolution and Innovation in Personal Transportation

FIELD TRIP HELPER 

Grades 9-12

This exploration tool will help students look more closely and think more critically about the consequences of our personal transportation choices.



Images from
Science, Life Skills and
Innovation in American
Auto Racing Educator
DigiKit.

literacy enhancement programs

Henry's Alphabet Cars

LITERACY ENHANCEMENT PROGRAM

Grades Preschool-K-1

Learn about Henry Ford's "alphabet cars" that led to his great innovation, the Model T. Employing immersive vocabulary recognition activities through storytime and hands-on activities, children will enhance their cognitive literacy skills and make relevant connections between the past and present.

Location: Henry Ford Museum

Offered: By appointment only



Reading Inspiration

LITERACY ENHANCEMENT PROGRAM

Grades 2-5

Reading Inspiration brings the story of Henry Ford's quest to build a car for the masses to life using fiction, nonfiction, digital images and engaging hands-on activities. The program reinforces grade-specific vocabulary, spelling, reading and comprehension, writing and design thinking skills.

For more information on these Literacy Enhancement Programs, contact paulag@thehenryford.org.

COOL TOOLS for TEACHERS and STUDENTS



NEW! ExhibitBuilder

Use this new authentic assessment tool to inspire student learning and build critical thinking and problem-solving skills. Students can access our easy-to-use digitized artifact galleries, conduct research, then create and post their own online exhibitions to share with others. [Get started at collections.thehenryford.org/exhibithome.aspx](http://collections.thehenryford.org/exhibithome.aspx).



NEW! DOWNLOADABLE DigiKits

A complete array of innovative online teaching resources that includes Michigan GLCE and HSCE, national standards in social studies and science, digital museum galleries with images of hundreds of curriculum-supporting artifacts, selected videos and audio clips, timelines, glossaries, field trip-reinforcing ideas, bibliographies, and in-depth topical reports written by The Henry Ford curators! Each DigiKit is made up of a teacher's guide and unit plans, with student activity sheets and assessments. The DigiKits can be found under three topics: Henry Ford and Innovation, Transportation: Past, Present and Future, and Racing in America. [Download @ thehenryford.org/education](http://thehenryford.org/education).

Thanks to generous funding provided in part by the Ford Foundation, the online educational resources related to Transportation in America now will be available for teaching and learning to schools across the nation and throughout the world.