mission statement

The Henry Ford provides unique educational experiences based on authentic objects, stories and lives from America's traditions of ingenuity, resourcefulness and innovation. Our purpose is to inspire people to learn from these traditions to help shape a better future.

overview

Scientific concepts such as Newton's laws, inertia, momentum, forces, Bernoulli's principle, centripetal force, kinetic and potential energy, heat energy, electrical energy and changes of energy are much easier to understand when illustrated with exciting, real-world examples. The Science, Life Skills and Innovations in American Automobile Racing Educator DigiKit does just that. Using **The Henry Ford's** collections, including digitized artifacts and oral history interviews with famous race car drivers, engineers and innovators, you and your students will explore the questions ***"How are science concepts demonstrated by auto racing? How do innovations in auto racing make use of science concepts?"***

This Educator DigiKit is divided into two sections: a **Teacher Guide** and a **Unit Plan**.

The Teacher Guide section includes resources to complement the Unit Plan. You will find a glossary, a timelines, context-setting activities, a bibliography, curriculum links and curriculum-supporting field trip suggestions.

The Unit Plan section follows the Teacher Guide and includes lesson plans, student handouts, answer keys, culminating project ideas, extension activities, and review and assessment questions. Many of the lessons include use of digitized artifacts from the collections of **The Henry Ford** that can be accessed through the hyperlinks in the Unit Plan or at our website, TheHenryFord.org/education. If you cannot incorporate the whole unit into your schedule, use the lessons or activities most relevant to your needs.

This Educator DigiKit promotes educational use of **The Henry Ford's** extensive Transportation in American Life collections. We hope you and your students will find these resources engaging and relevant.

These resources are made possible, in part, by the generous funding of the Ford Foundation.

contents

These lesson plans have been created for a wide range of ages, abilities and background levels. Teachers are encouraged to use them as appropriate by scaling activities up or down to best meet students' needs.

Please refer to the online version of the Educator DigiKits for the most updated links and content.