

**Sustainability:**Environmental Management and Responsible Manufacturing



## **Sustainability:** Environmental Management and Responsible Manufacturing at the Ford Rouge Factory Tour

High School Self-Guided Itinerary

Use this self-guided itinerary as you explore the Legacy and Art of Manufacturing theaters, the Observation Deck, the Assembly Line and the Living Lab. You will see how environmental management and responsible manufacturing take place in the real world.



Sustainability: Using our resources in a responsible manner to ensure that these resources will be plentiful for future generations.

## I. LEGACY GALLERY AND THEATER

Discover the history of the Ford Motor Company and Henry Ford's innovations at the Ford Rouge Complex.

As you watch the film in the Legacy Theater showcasing the history of the Ford Rouge Complex, consider environmental attitudes at the time of construction and industrialization. Based on what you see in the movie, how would you characterize the public's regard for the environment in the early 20th to mid-20th century?

DID YOU KNOW? The cistern located in the Legacy lobby holds up to 12,500 gallons of water collected from the Visitor Center roof! This water is used for landscaping irrigation, which conserves our freshwater resources.

II. OBSERVATION DECK
Find the kiosk in the Observation Deck to learn more about green building design pioneer William McDonough and his work at the Ford Rouge Complex.

What were McDonough's goals for the environment in and around the Dearborn Truck Plant?

One component of sustainability involves protecting and managing our natural resources—air, water and soil. Visit the Observation Deck to learn more about the history of the Ford Rouge Complex and to get a bird's-eye view of the environmental innovations in action!

The Story of the Rouge – use the labels to answer the following questions:

He How did Henry Ford prepare the land at the Rouge for building his factory?



**DID YOU KNOW?** Industry contributes about 2% of the pollution in the Rouge River. The rest comes from our backyards, streets and driveways. You can help by not dumping oil, animal waste or other pollutants down storm drains.

	nmental advantages or disadvantages to this on-site manufacturing process?
	employed over 100,000 workers. How did Henry Ford build social equity for his
	ican automotive industry?
21ST-CENTURY PROBE: How has the deep-water oil s	spill in the Gulf of Mexico changed the debate about renewable versus nonrenewable u think this will compare with the oil crisis of the 1970s?
Who is William Clay (Bill) Ford Jr.?	
According to Bill Ford, "A good company delivers e	excellent products and services. A great company does all that and strives to oof, what other environmental innovations can be seen from the Observation Deck?
	ronmental Benefit:
•	
How does the living roof save money?	
DID YOU KNOW? The skylights and of the Dearborn Truck Plant can be electrify 1,000 homes. Solar energy	

## III. ASSEMBLY LINE

Another component of sustainability involves protecting the health and well-being of all people in our society. This is also commonly referred to as Social Justice. As you tour the assembly line walkway, look for ways that the health and well-being of Ford employees are being protected.

🙀 What innovations have been implemented at the Dearborn Truck Plant to manage the health, well-being and working conditions of the

**Ergonomics**: The science of designing the job, equipment and workplace to fit the worker.

employees?	
Innovation:	Benefit to Employees:
•	
IV. LIVING LAB — GUIDED TO	UR (available, weather permitting, mid-May to mid-October)
	ays that Bill Ford's vision for sustainability is being met. Explore the wetlands, orchard and anaging the air, soil and water at the Ford Rouge Complex.
When Bill Ford and William McDonough	considered revitalizing the Rouge, what did they envision?
How do the living roof, wetlands and swa	ales work together to manage storm water?
-	nagement save Ford Motor Company money?
How does the orchard help manage air a	
What roles do the songbirds and honeyb	ees play in this ecosystem?

**TYING IT ALL TOGETHER:** As part of McDonough's philosophy of "Cradle to Cradle," he always considers the following question before he starts the design process for a project: "How do we love all of the children of all species for all time?" How do the environmental innovations at the Ford Rouge Complex address his question?