

Elementary
Self-Guided Itinerary

Life Requirements

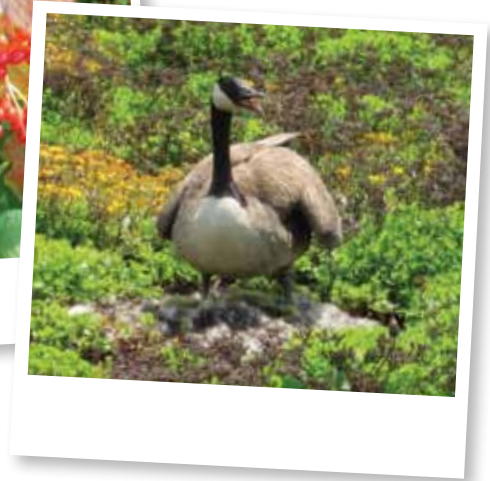
at the Ford Rouge Factory Tour
Grades 3-5 Self-Guided Itinerary



Life Requirements at the Ford Rouge Factory Tour

Elementary 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 life requirements are met in the real world.



I. LEGACY GALLERY AND THEATER

Historical connection: Watch the video in the Legacy Theater about the history of the Ford Rouge Complex. You will learn that the site of the Ford Rouge Complex was a swampland before it was purchased and developed by Henry Ford.

? What types of animals do you think lived there when it was a swamp?

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II. OBSERVATION DECK

Visit the Observation Deck to get a bird's-eye view of Ford Motor Company's environmental innovations in action! See the world's largest living roof, and learn more about the life requirements of sedum.

Find the kiosk on the Observation Deck to learn more about 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?

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Use the labels to answer the following questions:

? What type of habitat was at the Ford Rouge Complex site before it was built?

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? How much did it cost Henry Ford to buy the land?

.....



William McDonough



Close-up of sedum

? What are the layers of the living roof? How does each layer meet the needs of the sedum?

Layer:	How It Meets Need (Purpose):
1.
2.
3.
4.

? What are the sources of these life requirements?

Life Requirement:	Source:
1. Water
2. Energy
3. Nutrients
4. Temperature

? Besides the living roof, what other environmental innovations can be seen from the Observation Deck?

Innovation:	Environmental Benefit:
1.
2.
3.



Did you know?

- Ford leads the automotive industry in the use of recycled materials.
- To minimize waste, car parts are packaged in reusable plastic containers.
- Since 2000, all Ford F-Series trucks have met federal standards for low-emission vehicles.

III. ASSEMBLY LINE

Tour the assembly line of the Dearborn Truck Plant to see how innovations are meeting the life requirements of the people who work there.

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

? What innovations have been implemented at the Dearborn Truck Plant to meet the needs for *the health, well-being and working conditions* of the employees?

Innovation:	Helps People By:
1.
2.

IV. LIVING LAB — GUIDED TOUR (available, weather permitting, mid-May to mid-October)

Tour the Living Laboratory to discover what is happening outside the Dearborn Truck Plant.

? List some of the plants that you see in the wetlands and orchard:

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.....

? List some of the animals or insects that you see in the wetlands and orchard:

.....
.....
.....

? Select one plant and one animal or insect from your list. Fill in the blanks below to show how its life requirements are being met.

Plant

Animal or Insect

Water source

Water source

Energy source

Energy source

Carbon dioxide source

Shelter

? Close your eyes and listen carefully for a minute. List all of the noises that you hear in the Living Laboratory:

Sound:

Natural or Man-Made?

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? Why do you think that Ford Motor Company, which makes cars and trucks, would also be “making” wetlands and orchards?

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? How do our actions affect the life requirements of plants and animals?

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Wetlands and native shrubs at the Ford Rouge Complex Visitors Center

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