

Enrich your field trip experience with these new “for the teachers, by the teachers” themed itineraries. Created by **The Henry Ford 2009 Teacher Fellows** and tested with their students, these new curriculum-aligned tools for teachers, group leaders and students will deepen student learning and understanding of selected topics, sites and exhibits.

## SUGGESTED PRE-VISIT ACTIVITIES:

- Have students brainstorm everything they know about inventors and the processes they go through in inventing.
- Discuss what inventing is. Students will also be filling in an ABC book of inventing.
- Give students a Venn diagram, and let them choose the two inventors that they want to study while at *Greenfield Village*®. Review how to take good notes while on a field trip.

## ON-SITE ACTIVITIES

This themed itinerary focuses on inventors and the characteristics they share. It is based on visits to three inventors' workshops and homes throughout *Greenfield Village*. It can be done in various ways. It is recommended that teachers and group leaders divide their students into teams of four and have them visit two different inventor sites. They will then compare the lives of the two that were chosen. The order that each site is visited is not important. Although having them visit each inventor's site before heading to another inventor's is recommended.

## POST VISIT OR EXTENSION ACTIVITIES

When the students return to school, they will be comparing and contrasting the lives of the two inventors they chose. There should be much classroom discussion about the character of each man. They will then pick an inventor they want to research and do a project on the selected inventor. Assuming the role of that inventor, students will also need to invent something of interest using the point of view of the person they researched.

## Related Michigan Grade Level Content Expectations

### Social Studies

K - 1.1, 1.3, 1.4, 2.1, 2.3  
3 - H 3.0.8, H3.0.1, H3.0.4

### English Language Arts

3 - W.GN.03.03, W.GN.03.04 W.PR.03.02 L.CN.03.02  
4 - W.GN.04.04, W.PR.04.02, W.PR.04.03, W.PR.04.04,  
W.PR.04.05, L.CN.04.01  
5 - W.GN.05.04, W.PR.05.02, W.PR.05.03, W.PR.05.04,  
L.CN.05.02, L.CN.05.03

## Background Information on Inventor Sites in *Greenfield Village*

This information can be used or shared with students in the classroom or by the teacher and group leaders during their visit to *Greenfield Village*. Numbers correspond to those on the *Greenfield Village* map.

### Bagley Avenue Workshop (#31)

By 1896, Henry Ford had this little brick shop that stood behind his home at 58 Bagley Avenue. Henry Ford completed his first vehicle here in 1896. That car can be viewed through the windows of the building.



### Ford Home (#29)

Henry Ford was an ordinary boy who grew up on a farm. As he was growing up here, the combination of positive family influences, dislike of farm life and innate mechanical abilities all played into his later dreams and achievements. Ford lived in this home from 1863 to 1879.



# The Henry Ford® Trip Helper | Life of an Inventor for teachers

## Wright Cycle Shop (#66)

In this building, the Wright brothers fixed and sold bicycles. This shop helped to refine their woodworking and metal-working skills as well. It generated enough income to later support their flying experiments.



## Thomas Edison's Menlo Park Complex (#70)

This is the birthplace of modern sound and light technologies. Everything we have come to know in the applications of electricity can be traced in one way or another to this place: lighting homes and workplaces; recording sounds for business, pleasure and entertainment; the use of small electrical appliances; and the electricity to run trains and subways. No other place, organization or individual can claim this.



## Wright Home (#67)

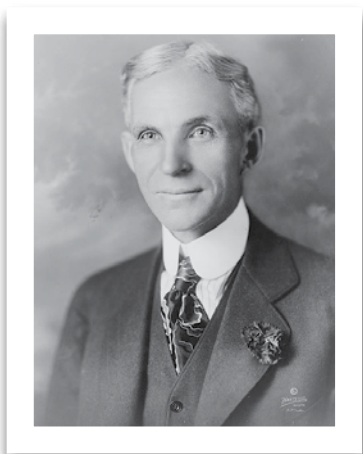
The Wright brothers first seriously considered the possibility of human flight in this house while Orville recovered from typhoid fever in 1896. In the following years, he spent long hours in this home debating and calculating aeronautical theories with his brother Wilbur.



## Life of an Inventor

Use this booklet to explore the homes and workshops of Henry Ford, Orville and Wilbur Wright, and Thomas Edison. Discover the traits of inventors, and think about the impact of their inventions and innovations on your life today.

## Henry Ford



### Bagley Avenue Workshop

Answer the following questions:

Look at the bicycle behind the Quadricycle. Compare and contrast the two:

Quadricycle	Bicycle
1. _____ _____	1. _____ _____
2. _____ _____	2. _____ _____
3. _____ _____	3. _____ _____
4. _____ _____	4. _____ _____

What was Henry's first car called?

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What year was it invented?

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What was this building before it became Ford's workshop?

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Where was this building originally located?

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What is the importance of this building?

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What is your reaction to this building?

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# The Henry Ford® Trip Helper | Life of an Inventor for students

## Ford Home

Answer the following questions:



What things did Henry Ford like to take apart and put back together?

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What was life like for him as a boy?

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How did his family feel about his dislike of farm life?

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Read the following quote:

*"This is what took me into mechanics. I want to take the work off men's backs and lay it on steel and motors."*

– Henry Ford

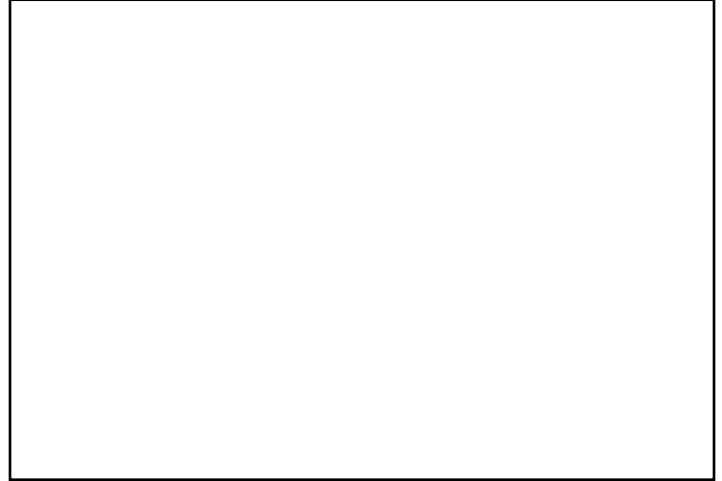
How did his ideas change the USA?

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Pick one room in the house to explore. Draw a picture of the room. Use lots of detail. Leave little white (blank) space.



Write two descriptive sentences about the room.

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List three character traits of Henry Ford. Support your answer with evidence that you have seen.

1. \_\_\_\_\_

Evidence: \_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_

Evidence: \_\_\_\_\_  
\_\_\_\_\_

3. \_\_\_\_\_

Evidence: \_\_\_\_\_  
\_\_\_\_\_

### Back in the classroom:

What was the most interesting thing that you learned about Henry Ford?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

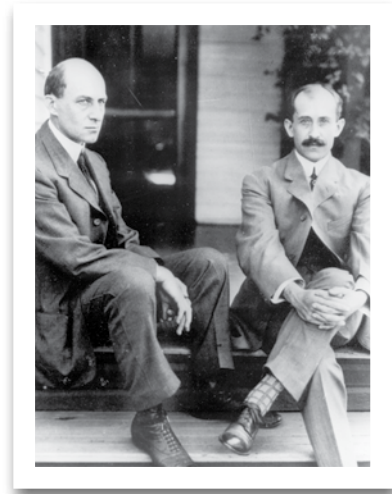
What would you tell Henry Ford about how his inventions have changed lives?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What do you think of Henry Ford?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Wright Brothers: Orville and Wilbur



### Wright Cycle Shop

Answer the following questions:



What was done in this shop?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Where was it originally located?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What happened at Kitty Hawk, North Carolina?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# The Henry Ford® Trip Helper | Life of an Inventor for students

What did the brothers first start to tinker or work with?  
(Hint: It wasn't planes!)

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What was the cost of a bike during the time that Orville and Wilbur ran their cycle shop?

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What does a bicycle cost now?

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What did Orville do after the death of his brother Wilbur?  
What other inventions did the brothers have?

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What is your reaction to this building?

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**Wright Home**  
Answer the following questions:



What was life like at the Wright home?

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Did the brothers have any other siblings? Elaborate.

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What did the brothers do for fun?

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Where was the original location of this building?

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Did either one of the brothers attend college?

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Describe a day in the life of the brothers when they were young.

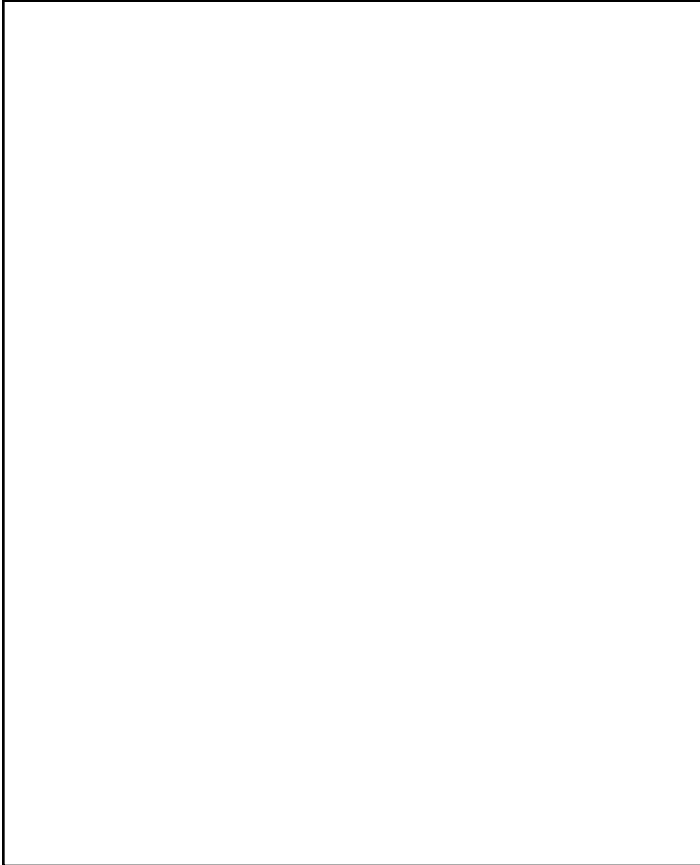
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# The Henry Ford® Trip Helper | Life of an Inventor for students

Pick one room in the house to explore. Draw a picture of the room. Use lots of detail. Leave little white (blank) space.



Write two descriptive sentences about the room.

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Describe the type of relationships that the Wright brothers had with others. What kinds of friends did they have, if any?

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List three character traits of Orville and Wilbur Wright. Support your answer with evidence that you have seen.

1.

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Evidence \_\_\_\_\_

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2.

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Evidence: \_\_\_\_\_

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3.

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Evidence: \_\_\_\_\_

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### Back in the classroom:

What was the most interesting thing that you learned about Orville and Wilbur Wright?

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What would you tell the Wright brothers about how their inventions have changed lives?

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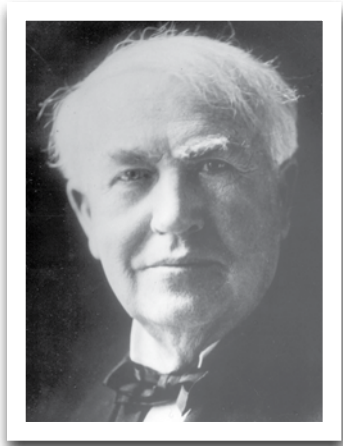
What do you think of the Wright brothers?

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## Thomas Edison



What is the original location of this building?  
What is the importance of this building?

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What type of men did Edison hire?

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What was Edison's favorite invention?

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## Menlo Park Complex (Laboratory)

Answer the following questions:



What year did he invent it?

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What other things did Thomas Edison invent/improve?

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What benefits did electricity have on the workplace?

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What year was Menlo Park built?

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Is this the original building? Why or why not?

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Look upstairs in the laboratory. What is in the back of the laboratory? Why do you think it is there? What was it used for?

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# The Henry Ford® Trip Helper | Life of an Inventor for students

List three character traits of Thomas Edison. Support your answer with evidence that you have seen.

1. \_\_\_\_\_

Evidence: \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

Evidence: \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

Evidence: \_\_\_\_\_

\_\_\_\_\_

## **Back in the classroom:**

What was the most interesting thing that you learned about Thomas Edison?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What would you tell Thomas Edison about how his inventions have changed lives?

\_\_\_\_\_

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\_\_\_\_\_

What do you think of Thomas Edison?

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\_\_\_\_\_

\_\_\_\_\_