



# **STUDEBAKER NATIONAL MUSEUM**

## **TEACHER GUIDE**

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## NOTE TO TEACHERS:

The Teacher Guide contains information for planning your trip to the Studebaker National Museum, Indiana academic standards, a brief history of Studebaker, blank student activity worksheets, an answer key, and a glossary. The Student Workbook only includes the brief history, blank worksheets, and a glossary. The **Museum Post-Visit Test** is **NOT** included in the Student Workbook and can only be found in this Teacher Guide.

# SCHOOL FIELD TRIPS: PLANNING YOUR TRIP

The Museum is open for school trips Monday-Saturday from 10am-5pm and Sunday 12pm-5pm EST.

## Planning Your Trip

1. Choose dates and make your reservation:  
Campus Tour Coordinator  
(574) 235-9664 ext. 242  
tours@historymuseumsb.org
2. Watch your mailbox! Once we've received your reservation, we will send you a confirmation with your assigned tour date and time as well as the admission fee for your group.

## Tour Length

The tour of the Studebaker National Museum generally takes an hour. A tour guide can be arranged at no extra charge. Our docents are trained to work with school-aged children helping them to bring the student workbook information into conversation with the Museum exhibits, asking questions, and soliciting active participation.

## Accessibility

The Museum and galleries are fully handicap accessible.

## Cancellations

Reservations to visit the History Museum and Studebaker National Museum have been made in your group's name. If you are visiting the Oliver Mansion/Worker's Home or wish to have guided tours of Studebaker, tour guides have been scheduled to take your group through the museum facilities. Please let us know as soon as possible if your group must cancel their visit. We request a minimum of one week's notice should cancellation be necessary.

## The History Museum

The History Museum and the Studebaker National Museum are adjacent to each other, and tours of both facilities can be scheduled when planning your visit.

# PRE-VISIT LESSON PLAN FOR ACTIVITIES RELATED TO STUDENT CURRICULUM

1. Read and discuss the Student Workbook.
2. Complete Activity Sheets at the end of the workbook.
3. Arrange to view the film "The Studebaker Story." It is available from the Studebaker National Museum or the South Bend Public Library. If you are not from South Bend, you can borrow the film on inter-library loan.
4. Have students ask their family members if anyone from the family worked at Studebaker. If so, have them interview the person if they are available or have them gather as much information as is known by the family about the person who worked at Studebaker Corporation. Have the students write a one-page report and share what they learned with the class.
5. Have students research other area industries. Have them write a one-page report on that industry and share it with the class or have them make a classroom scrapbook of articles and advertising for products made in the region.
6. Create an assembly line in the classroom for the production of an item. Afterwards have the students talk about what it was like to work on only one part of the production line rather than creating the entire item themselves.

# TEACHER GUIDE

## SECTION I: ACADEMIC STANDARDS

A visit to the Studebaker National Museum, supplemented with this workbook, would fulfill the following Indiana Academic Standards (found at [doe.in.gov/standards/social-studies](http://doe.in.gov/standards/social-studies)):

### Academic Standards for Grade Level 2

- [2.1.2] Identify continuity and change between past and present community life using primary sources.  
**Ideas:** *Examine how the South Bend region changed as Studebaker grew and expanded.*
- [2.1.3] Identify actions and individuals who had a positive impact on the local community.  
**Ideas:** *Studebaker Brothers.*
- [2.1.4] Identify and describe community celebrations, symbols and traditions and explain why they are important.  
**Ideas:** *South Bend city flag on display upstairs in the Museum, Studebaker as a symbol of South Bend community and life.*
- [2.1.7] Read about and summarize historical community events using a variety of resources (the library, digital media, print media, electronic media, and community resources).  
**Ideas:** *Students visiting the Museum can learn about and summarize major developments in the history of South Bend industries.*

### Academic Standards for Grade Level 3

- [3.1.4] Give examples of people, events, and developments that brought important changes to your community and the region where your community is located.  
**Ideas:** *Studebaker and the company's impact on the automobile industry and local community, evolution of roads (interactive exhibits).*
- [3.1.6] Use a variety of resources to gather information about your region's communities; identify factors that make the region unique, including cultural diversity, industry, the arts, and architecture.  
**Ideas:** *Visit the Studebaker National Museum.*
- [3.1.8] Describe how one's local community has changed over time and how it has stayed the same.  
**Ideas:** *How did South Bend grow during the Industrial Revolution with growing industry in the area? How did Studebaker impact the town's culture and workforce?*
- [3.1.9] Define immigration and explain how immigration enriches community.  
**Ideas:** *Many immigrants came to the US (specifically to the South Bend*

- area) and worked for Studebaker their whole lives.
- [3.4.2] Give examples of goods and services provided by local business and industry.  
**Ideas:** *Studebaker vehicles, other South Bend industries.*
- [3.4.8] Gather data from a variety of resources about changes that have had an economic impact on your community.  
**Ideas:** *The impact Studebaker had on the greater South Bend region's economy and jobs, and the impacts of Studebaker's closing and its short-term and long-term effects on South Bend.*

#### Academic Standards for Grade Level 4

- [4.1.9] Give examples of Indiana's increasing agricultural, industrial, political, and business development in the nineteenth century.  
**Ideas:** *Growing industrial Midwest, creation of Studebaker, transition to factories, Industrial Revolution.*
- [4.1.11] Identify and describe important events and movements that changed life in Indiana in the early twentieth century.  
**Ideas:** *Introduction of the automobile, Studebaker's participation in war efforts.*
- [4.1.12] Describe the transformation of Indiana through immigration and through developments in agriculture, industry, and transportation.  
**Ideas:** *Development of Indiana's automobile industry such as Studebaker*
- [4.1.13] Identify and describe important events and movements that changed life in Indiana from the mid-twentieth century to the present.  
**Ideas:** *Labor strikes and unions, financial difficulties of the automotive industry, Studebaker's downfall.*
- [4.1.15] Create and interpret timelines that show relationships among people, events, and movements in the history of Indiana.  
**Ideas:** *Follow the formation and growth of Studebaker in relation to the settlement of the Midwest and industrial growth.*
- [4.4.1] Give examples of the kinds of goods and services produced in Indiana in different historical periods.  
**Ideas:** *Studebaker wagons/carriages/automobiles through the years, other South Bend industries.*
- [4.4.5] Describe Indiana's global connections.  
**Ideas:** *Identify international companies in Indiana such as Studebaker (with manufacturing in Canada).*
- [4.4.7] Identify entrepreneurs who have influenced Indiana and the local community.  
**Ideas:** *The Studebaker brothers.*

## **SECTION II: THE STUDEBAKER HISTORY**

### **Historical Background and Important Ideas**

The 1850 census reported a great change in the American way of life. The census noted that in earlier times, “the bulk of general manufacturing done in the United States was carried on in the small shop and the household by the labor of the family or individual proprietors who apprenticed assistants.” By 1850, most manufacturing was done by a “system of factory labor, compensated by wages, and assisted by power.”

This Industrial Revolution helped bring about a transportation revolution. South Bend factories in the mid- to late-19<sup>th</sup> century produced farm equipment and other necessities for life in rural America. Waterpower, steam power, and electricity were used to operate machinery. The same steam power that made factories possible also brought the steamboats and the railroads to carry farm and factory products into other regions of the country.

By the turn of the last century, the Studebaker Brothers Manufacturing Company was the largest wagon maker in the world. At the turn of the century, wagons, buggies, and carriages provided most of the transportation in our country. By 1925, the Indiana Highway Commission reported, “horse-drawn traffic has almost disappeared from our main highways. Such traffic has decreased rapidly in the past six years and now consists only of the local farm traffic.”

The Studebaker Corporation was the only wagon company to successfully change production over to automobiles. Indiana played a major role in the development of the automobile. Over 200 types of cars were produced in Indiana during the first two decades of the 20th century. Elwood Haynes, for example, developed one of the nation’s first automobiles in 1894. His Haynes Automobile Company sold more than seven thousand cars by 1916 but could not keep up with the assembly line production of Ford or General Motors.

There were many reasons for the decline of Indiana auto makers. Among them was the post-WWI recession, the Great Depression, and the lack of investment capital. The only Indiana auto maker that survived past World War II was Studebaker.

### **The Early Years of South Bend and Studebaker Brothers Company**

In 1831, South Bend was just a group of log cabins and one framed house.

By 1837, the little village had grown into a town. It had around 1,200 people and many houses, shops, and stores.

In 1845, the University of Notre Dame was established north of the town. By the 1850s, there were 1,652 people living in South Bend, and it was growing bigger every year.

There was an industrial revolution taking place around the world. It was the reason that small towns kept growing into big cities.

What does the term “industrial revolution” mean?

In the early 1800s, many shops and stores were owned by an individual or by a small company and had just a few employees. Most of the work was done by hand or small machines. By 1850, factories started to become more common, and they employed many people. Factories were built beside a river because the water provided both transportation routes and energy for steam and electricity. South Bend, located on the St. Joseph River, was an ideal place for factories back in the 1800s. Another thing that helped South Bend grow into a town was the railroad. On Saturday, October 4, 1851, the railroad reached South Bend. Many people began to move here in order to start a business. Among them were Clement and Henry Studebaker.



Henry



Clement

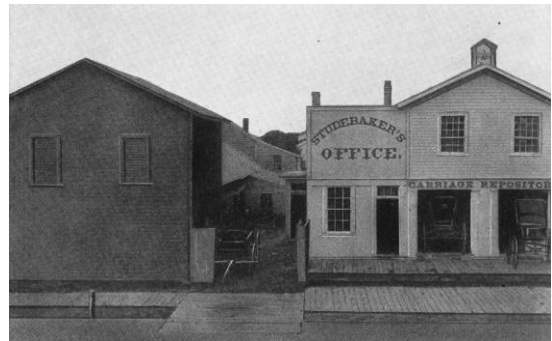
Brothers Clement and Henry Studebaker moved from Ashland, Ohio to South Bend, Indiana, in 1850. Clement found work as a schoolteacher and Henry worked as a blacksmith. By 1852, the brothers opened a blacksmith shop called H. and C. Studebaker on the corner of Jefferson Boulevard and Michigan Street. A bronze plaque marks the spot where the first shop was

located.

A blacksmith works with metal. His tools include a forge and bellows, an anvil, a hammer, and tongs. One of a blacksmith's jobs is shoeing horses. H. & C. Studebaker's first customer was a gentleman who needed his horse shod. He was charged 25¢ for the service.

In 1852, people relied on horses and horse drawn vehicles for their transportation needs. The Studebaker brothers also made wagons and built two wagons that first year. As the company grew, they built a large number of farm wagons. Farm wagons were typically painted red and green, with "STUDEBAKER" in yellow letters on the side of the wagon. This type of wagon is on display at the Museum.

The picture on the right is the Studebaker office and shops around 1855. In 1857, the United States government ordered 100 wagons from the Studebakers. This order helped the Studebaker brothers expand their business.



## The Studebaker Family



Clement and Henry Studebaker were the eldest sons of John and Rebecca Studebaker. The Studebaker family came to America in 1736 and settled near Gettysburg, Pennsylvania. John later moved the family to Ashland, Ohio, where he had a blacksmith shop.

The Studebaker brothers came from a large family. There were thirteen children and ten of them lived to be adults - five brothers and five sisters.

In 1858, another brother named John Mohler joined Clement and Henry in the business. John had been living and working in California during the Gold Rush. He made wheelbarrows and got the nickname "Wheelbarrow Johnny."

When John joined the company, Henry retired to run his farm. The remaining two brothers, Peter and Jacob, joined the company in the 1860s.

## **Studebaker Brothers Manufacturing Company: Wagons and Buggies**

The Studebaker brothers built supply wagons and ambulances for the Union Army during the Civil War. Pictured here is the Studebaker factory in the early 1860s.



Pictured on the left is what South Bend looked like circa 1860.

In 1868, the company was renamed the Studebaker Brothers Manufacturing Company. By 1875 the company made its first million dollars,

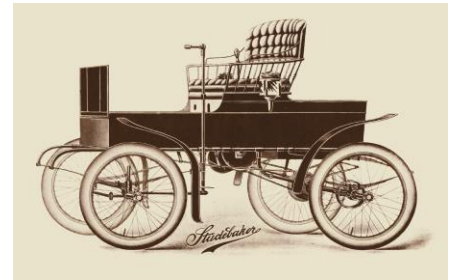
and by 1895 it was the world's largest wagon producer, making more than 75,000 wagons and buggies a year. The factory buildings covered 98 acres and employed almost 3,000 people.

The Studebaker Brothers Manufacturing Company was the world's largest wagon producer and was well known across the United States. Peter Studebaker led the company's sales department, travelling all over the United States promoting Studebaker products and signing up new Studebaker dealers.

Four United States Presidents had Studebaker carriages: Ulysses S. Grant (1873 carriage), Benjamin Harrison (1889 carriage), William McKinley (1896 carriage), and Teddy Roosevelt. Knowing the significance of preservation, Clement Studebaker began growing the company's collection when he purchased the Lincoln carriage in 1890 after having purchased the Marquis de Lafayette's carriage three years earlier.

## **Studebaker Brothers Manufacturing Company: Automobiles**

Studebaker introduced its first automobile in 1902. It was powered by electricity since John M. Studebaker preferred electric vehicles to gasoline powered cars. In 1902, Studebaker made 20 electric cars and trucks.



1908 Electric Runabout

In the next ten years, the company produced over 1,800 electric vehicles. The top speed of an electric vehicle was around 13 miles per hour. There are several early 1900s electric cars on display at the Museum.

In the early 1900s, an electric car offered several advantages over a horse. It was less expensive than caring for a horse and always ready when you needed it. Electrics were also more reliable than gasoline powered cars of the day as well as much quieter and easier to operate.

In 1904, Studebaker began producing gasoline-powered automobiles. In 1920, Studebaker stopped building horse drawn vehicles to concentrate exclusively on automobiles. The Studebaker Corporation was the only company to transition from making wagons to cars. Studebaker built many new factory buildings in South Bend during the 1920s, and by 1930 employed over 12,000 people.



1931 Studebaker Six

Studebaker's models in the early 1930s included the President, Commander, Dictator, and the Studebaker Six (pictured on the left).

In 1931, Studebaker introduced a car called the Rockne, named after legendary Notre Dame Football coach Knute Rockne. Coach Rockne worked for Studebaker's Sales Department in addition to coaching football at the University of Notre Dame. Unfortunately, Mr. Rockne died in a plane crash two months before the car was introduced.



Raymond Loewy

The stock market crash of 1929 led to the Great Depression. The Depression crippled the automobile industry, and many smaller manufacturers went out of business. Studebaker was Indiana's only automobile manufacturer to survive the Great Depression.

In 1936, Studebaker hired the Raymond Loewy Associates design firm to head Studebaker's Design Department. Loewy stayed with Studebaker until 1955 and returned again in 1962 to create the Avanti. Many of Studebaker's iconic automobiles were designed by Loewy and his staff. Some of Studebaker's most famous products include its 1950-1951 "Bullet Nose" models, the 1953 Champion, the Commander Starliner, and the 1963 Avanti.

1950 was Studebaker's record year, with over 400,000 cars and trucks built and nearly 24,000 employees. To the right is a 1950 Studebaker Land Cruiser featuring Studebaker's new bullet-nose design, perhaps one of the company's most famous designs.



1950 Land Cruiser

By the mid 1950s, Studebaker was struggling financially. The Studebaker Corporation was not a small company, but Ford, General Motors, and Chrysler were three of the largest corporations in America. Studebaker did not have the resources to compete on their level.



1959 Lark

In 1959, Studebaker introduced the Lark. The Lark was a "compact" car and had few competitors. It was a rousing success, as Studebaker enjoyed record profits. The next year, however, Ford, General Motors, and Chrysler introduced their own compacts, and Studebaker once again lost money.

The Studebaker Avanti debuted in 1962 and was intended to be Studebaker's "image car", similar to what the Corvette is to Chevrolet, but it was too late. By this time, the Avanti did not—and could not— save Studebaker.



1963 Avanti

In December of 1963, Studebaker closed its South Bend factory. Automobile production continued at the Hamilton, Ontario, Canada factory until March 17, 1966.

### **Studebaker: Military Production**

Studebaker supplied military vehicles for six wars, starting with the Civil War.

The Civil War, Spanish-American War, and World War I were fought primarily with horse drawn equipment. For World War I, Studebaker built supply wagons, ambulances, water carts, and gun carriages.



World War I  
Ambulance



The Weasel

During World War II, Studebaker manufactured military trucks, airplane engines for B17 bombers, and an all-terrain vehicle called the "Weasel" (pictured to the left).

Studebaker built army trucks and jet engines for the Korean War, and trucks for the Vietnam War.

When Studebaker closed the South Bend plant in 1963, its military contracts were taken over by the Kaiser-Jeep Corporation, which would later become AM General.

### **SECTION III: ACTIVITY SHEETS**

The following pages contain student worksheets to use as supplements to the Museum visit and classroom instruction. These worksheets may be reproduced and distributed for educational purposes.

This section of the teacher workbook contains the blank activity sheets for students, including:

1. Activity Sheet A: The Studebaker Brothers
2. Activity Sheet B: Coloring a 1904 Studebaker
3. Activity Sheet C: Transitioning to the Automobile
4. Activity Sheet D: Word Connect
5. Activity Sheet E: Museum Scavenger Hunt
6. Museum Post-Visit Test

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## ACTIVITY SHEET A



Above is a photo of the five Studebaker brothers: Henry, Clement, John Mohler, Peter, and Jacob (not in that order). Using the images in the Museum, identify the brothers from left to right.

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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## ACTIVITY SHEET B

BEFORE VISITING THE MUSEUM, describe what you think a 1904 gasoline-powered car might have looked like, including the colors of the paint, wheels, and seats.

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WHILE AT THE MUSEUM, find the 1904 Studebaker Model C automobile on the 1<sup>st</sup> floor gallery. This is the oldest surviving gas-powered Studebaker vehicle. This car sold for \$1,600 at the time, which would be around \$46,000 in 2019.

AFTER YOUR VISIT, describe the colors of the paint, leather seats, and wheels on the Model C. Compare your findings to what you expected from above.

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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## ACTIVITY SHEET C

### YOU SHOULD REPLACE THE HORSE WITH STUDEBAKER COMMERCIAL VEHICLES, BECAUSE

- |                                                                                                             |                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1 Cost less to maintain.<br>Horse maintenance charges continue to increase; "Studebaker" upkeep decreasing. | 12 Quicker deliveries; meeting the demands of the times.                                                            |
| 2 Horse a perpetual expense while alive. Must always be fed and groomed, whether at work or idle.           | 13 Working hours of a day not limited.                                                                              |
| 3 Studebaker Electric costs nothing when unemployed.                                                        | 14 Requires no time for rest.                                                                                       |
| 4 Cuts down stable space required to less than one-half.                                                    | 15 Less hampered and delayed in congested traffic.                                                                  |
| 5 So compact, can be stabled in smaller quarters, permitting less expensive housing.                        | 16 Garages inoffensive and can be located in convenient places near distributing centers. No insurance restriction. |
| 6 Requires fewer caretakers.                                                                                | 17 Always ready when you want them.                                                                                 |
| 7 Needs no attention on days when not in use.                                                               | 18 Will work under weather and road conditions when the horse cannot.                                               |
| 8 Lasts longer.                                                                                             | 19 Can be worked overtime without handicapping efficiency.                                                          |
| 9 Does the work of at least two horse vehicles, and sometimes three.                                        | 20 Requires less space for loading; saves time in loading and unloading. More can be loaded at same time.           |
| 10 Cuts down expense of drivers and wagon boys.                                                             | 21 More cleanly and sanitary.                                                                                       |
| 11 Goes there and back while the horse is on the way.                                                       | 22 Costs can always be accurately determined and gauged.                                                            |
|                                                                                                             | 23 Makes possible extension of free delivery limits at a lower cost.                                                |
|                                                                                                             | 24 An indication of progressiveness, and a good advertisement.                                                      |

What do you think is the best reason for choosing a car over a horse?

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Name ..... Class ..... Date .....

### ACTIVITY SHEET D

Draw a line connecting words in the first column with words in the second column.

Designer

Clement

Studebaker founder

Raymond Loewy

Image car

Avanti

President

Land Cruiser

Bullet Nose

Weasel

Military vehicle

Benjamin Harrison

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## **ACTIVITY SHEET E**

After reading the clues, keep your eyes open for the answers.

1. Name the five Studebaker brothers.
  
2. How much money did Clem and Henry have when they opened their blacksmith shop?
  
3. How many of the Presidential Carriages on display were made by Studebaker?
  
4. When did Studebaker start building cars?
  
5. How many acres does the Studebaker Proving Ground cover?
  
6. What 3 products did Studebaker build during World War II?
  
7. What is a prototype? Find one in the Museum and write down its name.

8. List three South Bend companies (besides Studebaker) that you can learn about in the Museum.
9. What was the name of the union that operated in the Studebaker factories?
10. On what date did Studebaker and Packard merge?
11. When did Studebaker produce its last car?

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## STUDEBAKER NATIONAL MUSEUM POST-VISIT TEST

NOTE: This test includes questions not answered in the history section of this packet that are answered in the Museum exhibits. Do not administer this test without visiting the Museum.

*Instructions: Circle T for True and F for False.*

1. The development of the automobile completely changed the American way of life.

T      F

2. A famous Studebaker buggy was the Wuzzer.

T      F

3. By 1895, the Studebaker Brothers Manufacturing Company had become the world's largest wagon maker.

T      F

4. At the turn of the 20th century, people rode in wagons, buggies, and carriages.

T      F

5. The Studebaker Corporation closed its doors in South Bend in 1950.

T      F

6. The Avanti is made of fiberglass.

T      F

7. Henry and Clement Studebaker were blacksmiths by trade.

T      F

8. Raymond Loewy was a famous Studebaker designer.

T      F

9. John Mohler Studebaker went to California to look for gold and ended up making and selling shoes.

T      F

10. "The Bullet Nose" automobile design was inspired by the airplane industry.

T      F

## SECTION IV: ANSWER KEY

### ACTIVITY SHEET A

|           |          |           |          |             |
|-----------|----------|-----------|----------|-------------|
| Henry     | Peter    | Clement   | Jacob    | John Mohler |
| front row | back row | front row | back row | front row   |

### ACTIVITY SHEET B

Students should describe their expectations in the first part. While at the Museum, students should find and observe the 1904 Studebaker Model C on the 1<sup>st</sup> floor gallery. For the third part, the actual car is **light gray** (off-white), and the seats are **red leather**.

### ACTIVITY SHEET C

Students should list reasons for switching from horse-drawn wagons to Studebaker automobiles.

### ACTIVITY SHEET D

|                    |                                                                                     |                   |
|--------------------|-------------------------------------------------------------------------------------|-------------------|
| Designer           |  | Clement           |
| Studebaker founder |  | Raymond Loewy     |
| Image car          |  | Avanti            |
| President          |  | Land Cruiser      |
| Bullet Nose        |  | Weasel            |
| Military vehicle   |  | Benjamin Harrison |

## ACTIVITY SHEET E

1. Name the five Studebaker brothers. **Henry, Clement, John Mohler, Peter Everst, and Jacob Franklin (Main or Second Floor Galleries)**
2. How much money did Clem and Henry have when they opened their blacksmith shop? **\$68 (Main Floor Gallery)**
3. How many of the Presidential Carriages on display were made by Studebaker? **2 (Main Floor Gallery)**
4. When did Studebaker start building cars? **1902 (Main Floor Gallery)**
5. How many acres does the Studebaker Proving Ground cover? **800 acres (Main Floor Gallery)**
6. What 3 products did Studebaker build during World War II? **US6 Army Truck, the Weasel, and Wright-Cyclone engines for the B-17 Flying Fortress (Second Floor or Basement Gallery)**
7. What is a prototype? Find one in the Museum and write down its name. **Sceptre, Predictor, Astral, etc. (Second Level and Basement Galleries)**
8. List three South Bend companies (besides Studebaker) that you can learn about in the Museum. **South Bend Lathe, South Bend Bait and Tackle, South Bend Bait, AM General, Wheelhorse, Bendix, etc. (All Galleries)**
9. What was the name of the union that operated in the Studebaker factories? **UAW Local #5 (Second Floor Gallery)**
10. On what date did Studebaker and Packard merge? **June 22, 1954 (Second Floor Gallery)**
11. When did Studebaker produce its last car? **March 1966 (Second Floor Gallery)**

## **STUDEBAKER NATIONAL MUSEUM POST-VISIT TEST**

1. **T**

2. **F**

3. **T**

4. **T**

5. **F**

6. **T**

7. **T**

8. **T**

9. **F**

10. **T**

# GLOSSARY

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Anvil:</b>           | A heavy block of iron or steel on which metal may be forged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Artifact:</b>        | Anything made by human work or skill.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Assembly Line:</b>   | An arrangement of industrial equipment and workers in which the product passes from one specialized operation to another until completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Automobile:</b>      | An automobile (via French from Greek <i>auto</i> , self and Latin <i>mobilis</i> moving, a vehicle that moves itself rather than being moved by another vehicle or animal) or motor car (usually shortened to just car) is a wheeled passenger vehicle that carries its own motor. Most definitions of the term specify that automobiles are designed to run primarily on roads, to have seating for one to eight people, to typically have four wheels, and to be constructed principally for the transport of people rather than goods. There were 590 million passenger cars worldwide (roughly one car for every eleven people) as of 2002. |
| <b>Blacksmith:</b>      | One who works iron on an anvil and uses a forge to make horseshoes and other iron products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Buggy:</b>           | A lightweight carriage, as in horse and buggy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Carriage:</b>        | An inland haulage usually horse-drawn vehicle. It is especially designed for private passenger use and for comfort or elegance, though some are also used to transport goods. It may be light, smart, and fast or heavy, large and comfortable.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Census:</b>          | An official count of a population complete with statistics covering all aspects of life.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>City:</b>            | An urban settlement with a large population of several thousand or larger.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conestoga wagon:</b> | A type of covered wagon used by American pioneers for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

westward travel.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electric cars:</b>         | The electric car, EV, or simply electric vehicle is a battery electric vehicle (BEV) that utilizes chemical energy stored in rechargeable battery packs. Electric vehicles use electric motors and motor controllers instead of internal combustion engines (ICEs). Vehicles using both electric motors and ICEs are examples of hybrid vehicles, and are not considered pure BEVs because they operate in a charge-sustaining mode. |
| <b>Factory:</b>               | A business for the manufacture or assembly of goods.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Forge:</b>                 | To heat metal and work into a shape. A fire pit that heats metal to working temperature.                                                                                                                                                                                                                                                                                                                                             |
| <b>Industrial Revolution:</b> | A name for the great changes brought about by factories in the 19 <sup>th</sup> century.                                                                                                                                                                                                                                                                                                                                             |
| <b>Industry:</b>              | Any specific branch of production or manufacture.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Labor:</b>                 | Physical or manual work done for hire.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Manufacture:</b>           | To make or process a product on a large scale.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Product:</b>               | Anything produced through labor.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Prototype:</b>             | An original model on which later cars are to be based.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Town:</b>                  | A community of people ranging from a few hundred to several thousand. Usually a "town" is thought of as larger than a village but smaller than a city.                                                                                                                                                                                                                                                                               |
| <b>Truck:</b>                 | A vehicle usually used for transporting bulk goods, materials, or equipment. The word "truck" comes from the Greek " <i>troches</i> ", meaning "wheel."                                                                                                                                                                                                                                                                              |
| <b>Village:</b>               | A clustered human settlement or community with fixed buildings, generally located in rural areas and smaller than a town.                                                                                                                                                                                                                                                                                                            |

- Wagon:** A heavy four-wheeled vehicle pulled by animals such as horses, mules, or oxen, and used for transportation of people or goods. Wagons are distinguished from carts (which have two wheels), and from lighter four-wheeled vehicles such as carriages. A wagon may be pulled by one animal or by several, often in pairs.
- Wheelbarrow:** A small hand-propelled vehicle, usually with just one wheel, designed to be pushed and guided by a single person using two handles to the rear.
- Wheelwright:** One who makes or repairs wheels.