

## Objective

By the end of this lesson, Brodi will understand the basic components of a car, how they work together, and their functions. This knowledge will provide a foundation for further exploration into automotive mechanics and maintenance.

## Materials and Prep

- Notebook and pen for taking notes
- Access to a computer or smartphone for research
- Images or diagrams of car components (can be found online)
- Basic understanding of how engines work (optional, but helpful)

## Activities

### • Component Scavenger Hunt

Brodi will research and create a list of essential car components, such as the engine, transmission, brakes, and battery. Then, he can search for images online and compile a visual guide of these components.

### • Interactive Diagram Creation

Using the gathered images, Brodi will create a labeled diagram of a car, showing where each component is located and its function. This can be done digitally or on paper.

### • Virtual Factory Tour

Brodi can watch a virtual tour of a car manufacturing plant or a video explaining how cars are assembled. This will help him understand the practical application of each component.

### • Component Function Explanation

Brodi will choose three components from his scavenger hunt and write a short paragraph explaining how each one works and why it is important for the car's operation.

## Talking Points

- "The engine is like the heart of the car; it converts fuel into motion."
- "Think of the transmission as the car's brain, deciding how much power to send to the wheels."
- "Brakes are crucial for safety; they help slow down or stop the car when needed."
- "The battery is like the car's energy source, providing the electricity needed to start the engine and power electrical components."
- "Each component works together in a system, much like the organs in your body."
- "Regular maintenance is key; just like you need to eat healthy, cars need to be serviced to run well."
- "Understanding car components can help you troubleshoot problems; it's like being a detective!"
- "Cars have evolved over the years; knowing the basics helps you appreciate modern technology."
- "Learning about cars can also save you money on repairs; knowledge is power!"
- "Many careers involve working with cars, from mechanics to engineers; it's a valuable skill set."
- "Cars are part of our daily lives; understanding them can make you a more informed driver."

- "Ask questions! Every great mechanic started as a curious learner."
- "You can find a lot of resources online, from forums to videos; use them to expand your knowledge!"
- "Don't be afraid to get hands-on; working on a car can be a fun way to learn."
- "Remember, every expert was once a beginner; keep learning!"