

Automotive Design 1

Vehicle Parts

Prepare Ahead for the Volunteer: Before the meeting...

- Print and cut out the “Interior Vehicle Parts,” “Exterior Vehicle Parts,” and “Names of Vehicle Parts” for girls to match in As Girls Arrive.
- Use the “Vehicle Diagram” to draw a larger blank version of the exterior vehicle body on a sheet of chart paper or a white board for Step 2. Do not label anything. If you used chart paper, place the outline at a height on the wall that the Brownies can reach or put the outline on the floor.

Exterior Vehicle Parts



Axle



Body



Door



Headlight



Taillight



Hood



Trunk



Wheel



Window



Windshield



Windshield Wiper



Bumper

Interior Vehicle Parts



Engine



Gearshift



Dashboard



Seat



Seatbelt



Steering Wheel

Names of Vehicle Parts

Axle

Body

Bumper

Door

Headlight

Taillight

Hood

Trunk

Wheel

Window

Windshield

Windshield wiper

Dashboard

Engine

Gearshift

Seat

Seatbelt

Steering wheel



PARTS OF A VEHICLE

Cars and other vehicles are made up of lots of parts. There are parts on the outside, or the **exterior**, and parts on the inside, or the **interior**.

EXTERIOR

- 1 The **axles** connect two wheels and spin, causing the wheels to turn.
- 2 The **body** is the outside shape.
- 3 **Bumpers** cushion the front and back.
- 4 **Doors** open and close to let people get in and out.
- 5 **Headlights** help the driver see in the dark or bad weather.
- 6 **Taillights** help other drivers see when the vehicle is slowing down, turning, or backing up.
- 7 The **hood** can be opened to take care of the engine and other parts.
- 8 People store cargo in the **trunk**.
- 9 Most vehicles have 4 **wheels** with tires that roll to move the car.
- 10 **Windows** help people see where they're going.
- 11 The **windshield** lets the driver see in front.
- 12 The **windshield wiper** slides back and forth to wipe off rain and snow.

INTERIOR

- 13 The **dashboard** shows the driver vehicle information like its speed, how much fuel it has, and what gear it's in.
- 14 The **engine** powers the vehicle to make it go.
- 15 The driver uses a **gear shift** to make the vehicle go forward or backward.
- 16 Each passenger sits in a **seat** with a **seat belt** to keep them safe if there's an accident.
- 17 The driver rotates the **steering wheel** to make the vehicle turn.

