

Brownie Automotive Design Badge



Cars are one of the most popular forms of transportation. Have you ever thought about what type of car you would want to drive in the future? What does it look like? What color(s) are in the exterior and interior? Does it have any special features? There are many great ideas for vehicles. Now it is time to design your dream car!

To earn the Junior Automotive Design Badge, you will need to study the history of automobiles, research current car trends, create a list of special features and design elements that you want to include in your car, and create a model of your amazing dream car.

Time to complete this badge: between 1 to 1.5 hours or longer for the final creation step.

Supplies needed:

1. A computer or any device with the internet. This will be used for step 1 to conduct research.
2. Paper, colored pencils, markers
3. A pencil or pen
4. Air drying clay (colored clay or plain to paint later), or playdoh.



Below are the steps to complete the Junior Automotive Design Badge:

1. **Types of Transportation:** You already know many types of transportation. Cars, trains, and airplanes are some of the most popular forms of transportation that people use. Can you think of any other ways that people get from one place to another? What type of transportation do you use daily? What types of transportation do you use occasionally?

Often, several types of transportation are used to get goods from one place to another. Attached is a worksheet that is titled, “Move My Goods!” For this worksheet, you are an entrepreneur, and your company produces a product that ships to customers all over the world.

What type of product will you sell? Lemon lollipops? Purple teddy bears? Friendship bracelets? Pick a city and country outside of the USA. If you needed to ship your product to your customer in another country, how many modes of transportation would you need to use? Illustrate the journey your product will need to make from your home city, to the customers city/country. Include illustrations of the countries, the oceans that are crossed (if any), and the modes of transportation used.

Questions to ask after this step:

- How long do you think the journey will take for your product to make it to your customer? Is there a faster way to get the product shipped?

2. **Make a List:** What popular features are in cars now? Ask an adult what some of their favorite features are in their cars? What features do you want to include in your car? Make a list of 5 to 10 important features that you want to include in your dream car.

3. **Time to Draw!** On a separate piece of paper, draw your dream car. Add details including color, shape, and any special features. Make sure to give your car a great name!

4. **Let’s Sculpt!** Using clay, or playdoh, sculpt a model of your dream car. Consult your initial design. Have fun!

5. **Check in:** What did you learn about cars while earning this badge?

Congratulations! You have now earned your Brownie Automotive Design Badge!

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Move My Goods!

What type of product do you sell?

Where is your product made?

Use the space below to draw the travel route of your product from the place that it is made, to the location you are shipping it to. Label each location and draw the type of transportation that will be used.