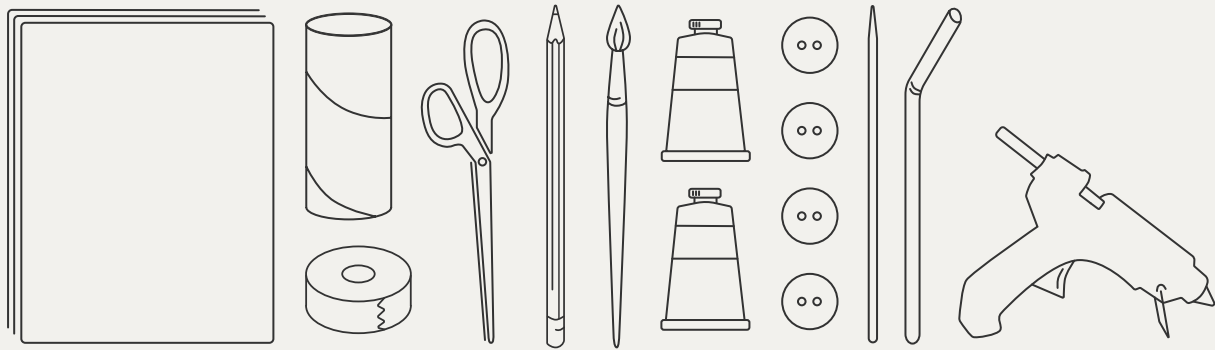


Learn to make miniature vehicles from artist Amelia Butcher. Recycle materials from around your home and make a tiny truck, van, or race car with wheels that really move!

What you'll need...

Toilet paper roll, scissors, tape, straws, skewers, four circular objects to use as wheels (buttons, lids, bottle caps, etc), hot glue gun, a pen or pencil, paint or markers, and paper if you'd like to make a road.



Where do you start?

By thinking about what kind of car you want to make. Will it be just like the car you already own? Or your dream car? Or is it a car that helps someone do their job, like a food truck, a school bus, an ice cream truck, or a delivery van? Maybe insurance is too pricey where you live and it's a car from a car share program instead. It's up to you!

Okay, but now what?

Just a little bit of preparation! Dig into your recycling bin and find some materials. You need one empty toilet paper roll and four round items for wheels. If you can't find four round items that are the same size, try to find two pairs! This way your front wheels can match each other, and your back wheels can match each other. Once you have those items gathered, it can be helpful to pre-tear masking tape into some small pieces and plug in your hot glue gun!

Instructions

- 1. Gather all your materials** and plug in your glue gun so it is ready to go later!
- 2. Lay the toilet paper roll down on its side and press it flat.** Run your finger down both sides to make sure the folds are nice and smooth.
- 3. Make the roll more square** by squeezing the roll in half again to create two more creases.

4. Open the roll back up again. It should look more square now. You can pinch down each crease while the roll is open if you need to create sharper corners.

5. On two seams that are next to each other, cut one third of the way into the roll.

6. To create the front windshield and hood of your car, fold this piece of cardboard back on top of the roll to create a crease. Fold that same piece of cardboard in half so that the edge of it reaches the crease you have just created. Then, push the folded section down to position the windshield (the central portion of the flap) on a downward angle from the roof of the car, and the hood (the end portion) to be about parallel with the bottom of the roll. The end of the hood should be a bit shorter than the bottom of the roll.

7. Cut away the excess cardboard on the sides of your car. Gently hold the sides, holding the hood and windshield at an angle you are happy with, then use a pen to mark where they reach on the side of your car. Cut along this line with your scissors to remove the excess. On both sides, cut straight down the side from the end of the car's hood to the bottom crease, then along the crease to remove a small square of excess. You should be left with the bottom of the car reaching out past the sides. Keep your cardboard scraps, you can use them to add details like mirrors or bumpers later!

8. Fold up the bottom piece to create the front of the car.

9. Tape the front and sides of the car to the hood. Don't worry too much about getting it perfect right now!

10. Making the back of your car, depends a bit on what type of vehicle you are making! If you want to make a Sedan, you can repeat the steps for the front of the car again on the back. For buses or delivery vans, you might just want the back of your vehicle to be flat. Or if you're making a pick-up truck, you'll need to make a bed to carry things in!

11. Before you seal the back of your car, you will need to add weight by placing a rock or other small heavy object inside the roll. This will help keep the wheels on the ground later!

11. From the back, make two equal sized cuts along the top two corners of your car. The distance between the edge of the windshield and the end of your cut will be the length of the cab.

12. If you want the back to be flat, the flap you create should reach to the middle of the hole when you fold it downward. Create two equal length cuts on the other two

corners, fold the top and bottom pieces toward each other, connect them with tape, and remove the extra pieces from the sides.

13. To make the bed of a pick-up truck, the top flap should fold down to reach right to the bottom of the roll to seal the weight inside the cab. Next draw on the outside where you want the sides of the truck bed to be and cut away the extra cardboard. You can create a tailgate with a scrap piece of cardboard and attach it with tape!

14. Tape along all the seams of the car to make them stronger

15. Cover the whole car in masking tape making sure there aren't any gaps and keeping the surfaces flat. This helps make painting easier and adds a bit of extra strength!

16. Add some colour and add details! Use paint or markers. It can be fun to think about who owns the car and what they use it for as you add details. Don't forget windows so the driver can see. You can paint the items you are going to use as wheels at this point as well!

17. Cut two small pieces from a straw that are the same width as your car. If you don't have a straw, you can roll up scrap paper to create a tube and secure it with tape. Just make sure that whatever material you use is wide enough that your skewer will fit through the centre!

18. Using hot glue, secure the straw to the bottom of your car where you want each set of wheels to be.

19. Cut two pieces from a skewer or stick that are a bit longer than the width of the car.

20. Using hot glue, attach one wheel to the end of each stick. Try to get the stick to be centred on the wheel and hold them in place until the glue has dried.

21. Slide the skewer into the straw on the bottom of your car and carefully attach the other wheel. Be sure you don't accidentally get the hot glue on the straw! This would stop your wheels from turning. Repeat this step for the second set of wheels!

22. Let's roll! Your car's all done. To make this project even more exciting, grab some paper and pens and draw some roads for your cars to drive through! Post on Instagram or Facebook, use the hashtag #seymouronline and tag @seymourartgallery