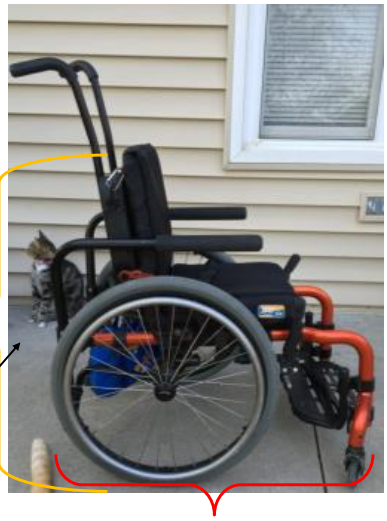
This is a quick example of how Walkin' & Rollin' Costumes built a Scooby Doo Mystery Machine for Shane.

STEP 1: Measurements

We needed a few measurements for the wheelchair and tray in front of Shane's wheelchair. These were all provided by the parents based on what we told them we needed for the build. The pictures helped us in determining what we needed.

The push handle bars are adjustable. In this picture the push bars are set at 37" from the ground.

He wheels himself during school time. It takes everything he has to wheel himself, but he does it. We push him at other times.

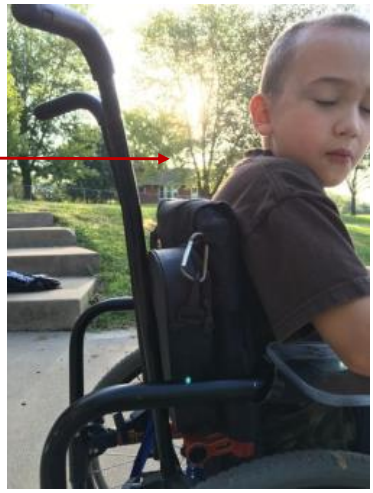


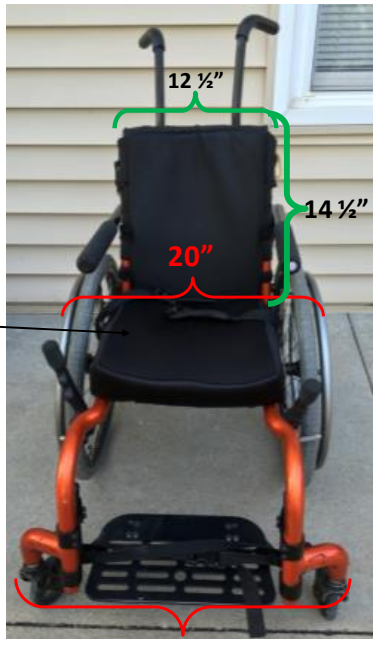
The cat that is sitting behind the chair; that is Shane's kitty. You will never figure out what he named him .....

Scooby

Shoulder height

Measurement from **top of head** to the **ground** 39 ¼"





Seat:

12 ½" x 12 ½"

Shane has a tray as well, and didn't know if you would need it to help stable anything.

Here are the measurements of tray if you need it.

31 ½" = front edge of tray to the back of chair

22 ¾" = width of tray
21 ½" = depth of tray

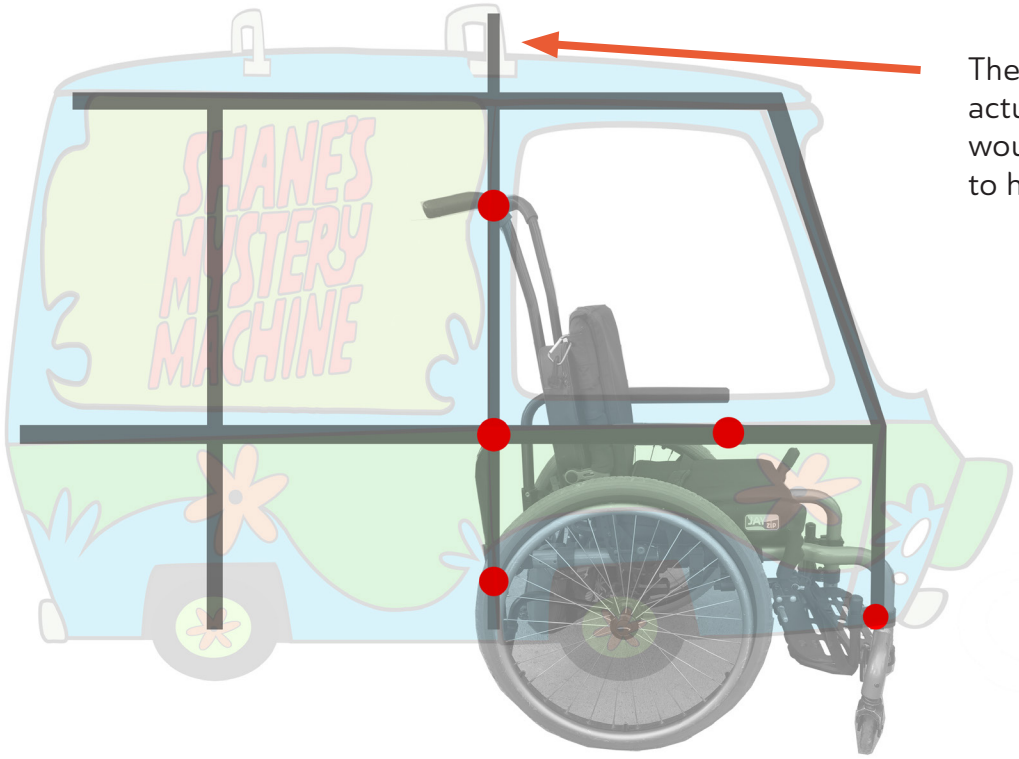
24 ½" = top of tray to ground

STEP 2: Sketch

A basic sketch was designed based on the cartoon van and warping parts of the design to line up with elements of Shane's wheelchair for easy attachment. The bottom of the window was going to line up with the armrests of his wheelchair, but the roof of the van had to be high enough to extend over Shane's head.

STEP 3: Frame

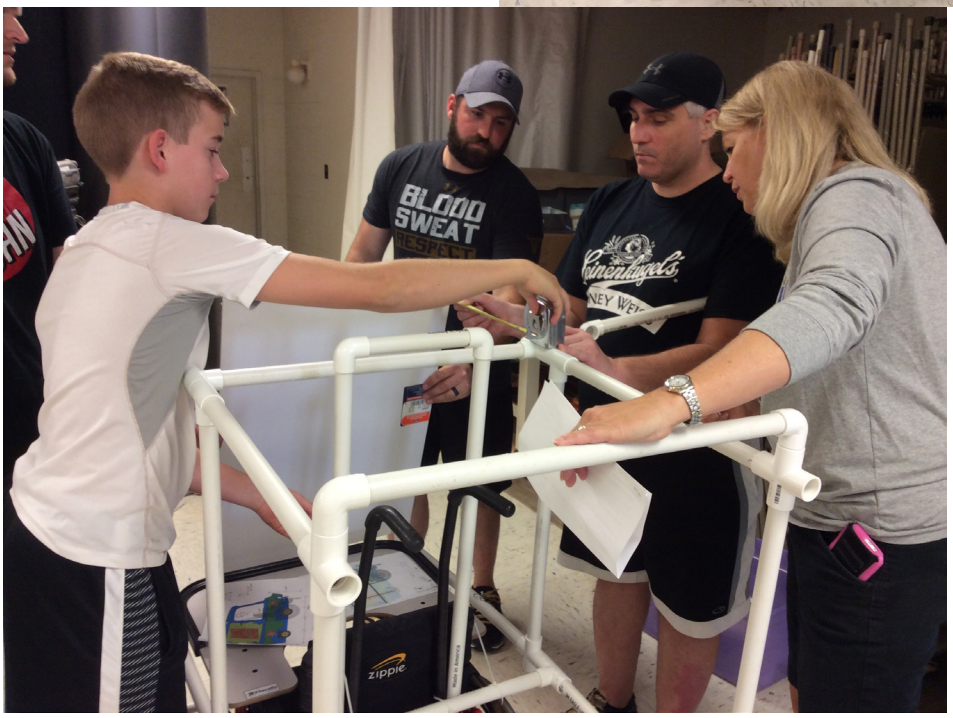
The basic box frame was decided and the red circles are where it would attach to Shane's wheelchair. While not shown in this sketch, the center red dot on the left hand side slid down into back of the chair where there were pockets for the frame to slide onto. (See step 4 for this view)



The van's rollbar on top would actually be the PVC frame and would serve as a parent handle to help push Shane if needed.

STEP 4: Start Contruction

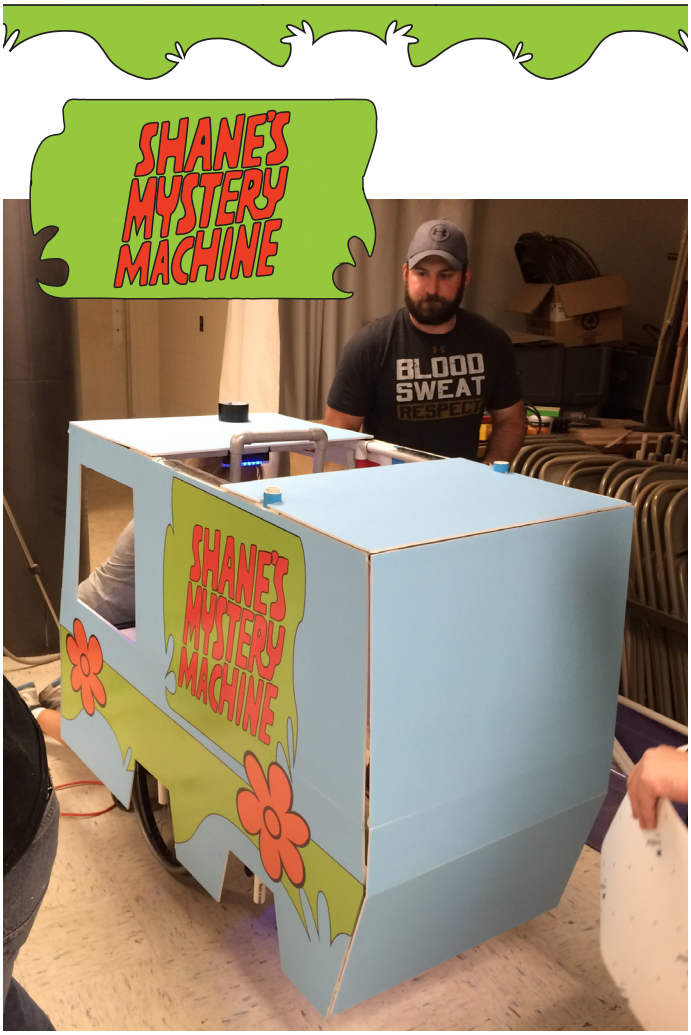
3/4" PVC is used for the frame. Most of the weight of the frame slides down into the pockets in the back that allows the PVC to rest on a ledge. Zip ties were used to secure the costume there as well as in the front of the wheelchair at the bottom.



STEP 5: Panelling and Stickers

This costume used light blue foam boards for the sides. These were all velcroed to the PVC frame. We had vinyl stickers produced for the graphics on the sides of the van. These could easily be done by hand as well. Sharpees and paint could work just as well.

Lawn mower tires were planned for the wheels but because the vinyl stickers wouldn't work as hubcaps for the tires, we switched to foam circles with the vinyl stickers to work as the wheels.



STEP 6: Finishing Up

Spooky blue lights were added in the back to give it a nice "ghostly glow." The spare tire in front was made from a styrofoam circle from the floral department of Hobby Lobby. A round piece of blue foam board was on the front and the sides were wrapped with blue duct tape to seal everything off. A vinyl orange flower was stuck to the front.

$3.00 tap lights were added to the front as headlights for the costume.

STEP 5: Completed

The finished costume. Shane loved it and it was a huge hit at Halloween. This costume was built in roughly 5-6 hours with the team in this photo. All measurements, plans and materials were gathered and ready for them to work.