ACTIVITY 1

Vehicle designers have to make a lot of decisions early in the process of designing and creating a vehicle. One of their considerations is how the design will affect how the vehicle will be used. Another early consideration is how it will look. You will have to take both of these into consideration. Let's get started on your vehicle!

> A design is a plan or drawing to show the look and function of an object before it is built.

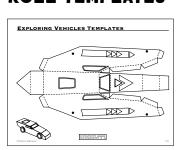
LET'S MAKE



WHAT YOU'LL NEED

INCLUDED

MINI FOLD-N-ROLL TEMPLATES



COLORED PENCILS



1/8-INCH STRAW

GT-FX WHEELS









AXLES



TRANSPARENT



NOT INCLUDED

RULER (for straight lines)



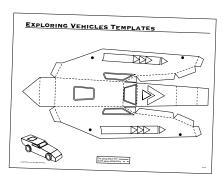




Examine the four Mini Fold-N-Roll Vehicle templates and select one that you think will roll down a ramp the best or that you think looks the best.



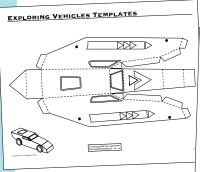


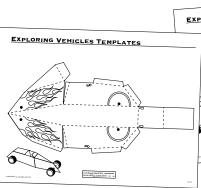


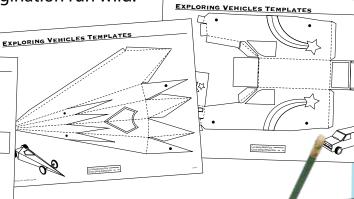
STEP 2

Before cutting anything out, use colored pencils to customize your vehicle template.

Tip: You don't have to limit yourself to the design printed on the vehicle – let your imagination run wild!



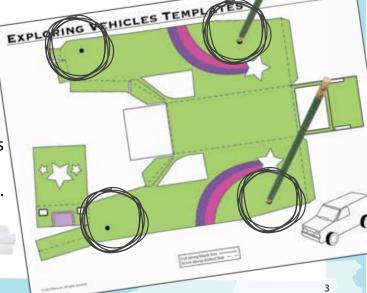


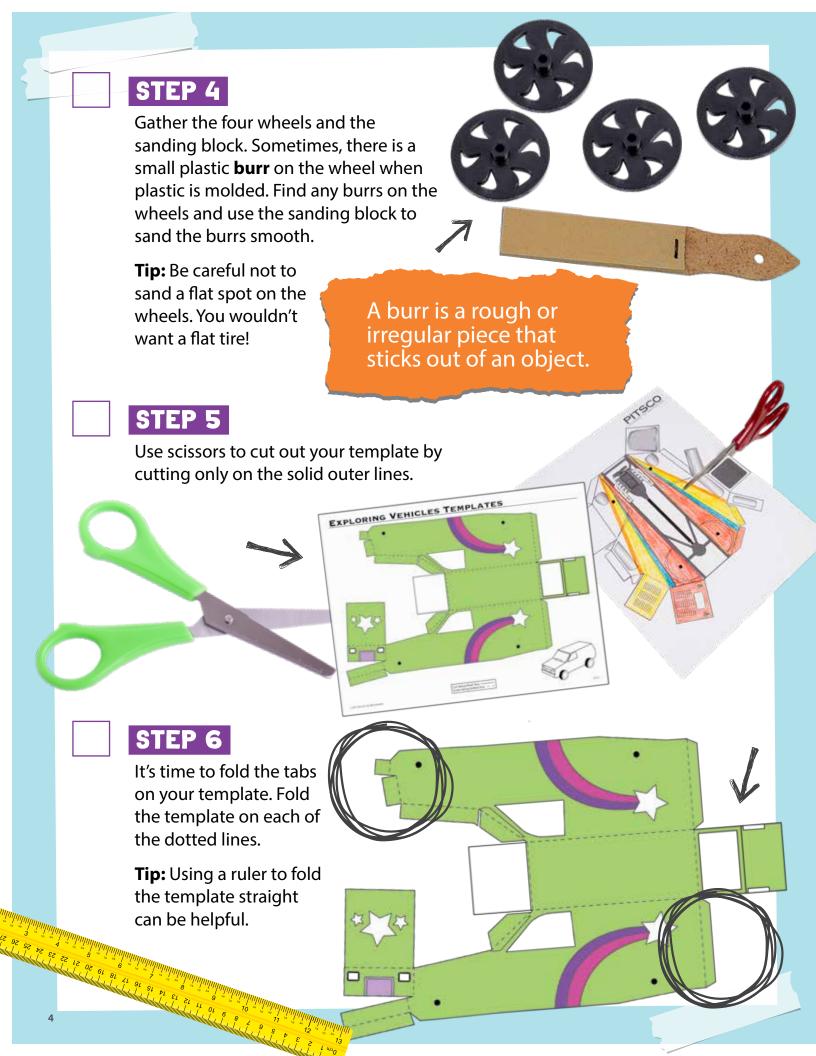


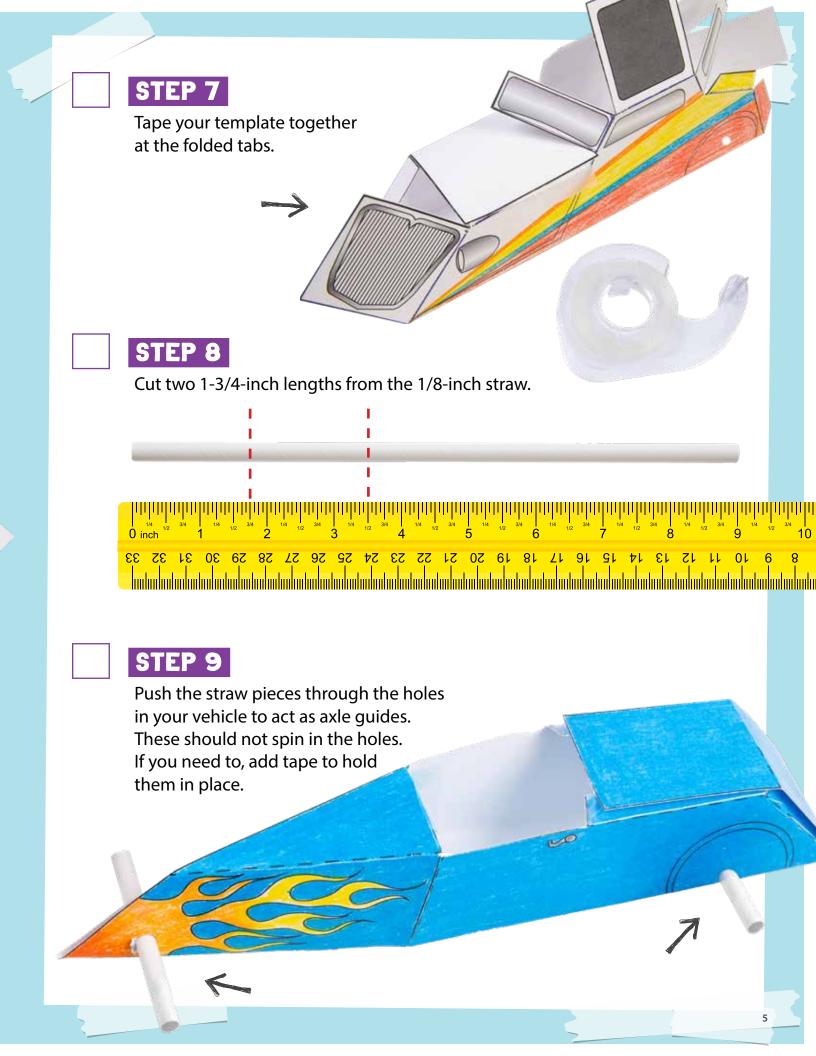
STEP 3

On each of the templates are four solid black dots that mark the location where the axle guides will be placed. Use a pencil with a sharp point to push through the template at these four dots to make the hole large enough for the 1/8-inch straw to fit snuggly in the hole.











THINK ABOUT IT

Vehicles begin as a concept and finish as a working vehicle built from that concept, but they often change along the way. Did your vehicle meet the expectations you had in the beginning? Why or why not?

A design is based in large part on what you will do with something. Write a story about how you imagine your vehicle being used based on the design.