

Design a vehicle

Make 1 and Make 2

Due Tuesday 3/8, Wednesday 3/9

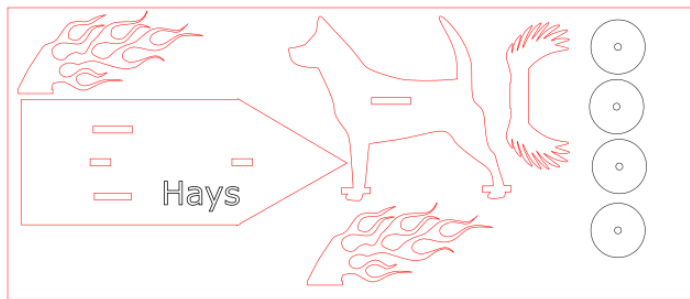
Your task is to design a vehicle with wheels that move using a single piece of thin cardboard, two straw pieces, two toothpicks, and some hot glue. Lay it out in Inkscape, laser cut it, and build it.

Your grade will be based on a combination of the following:

- Coolness of final product (does your vehicle look cool or stand out in some way)
- Neatness and craftsmanship (does it look clean and neat, or is it sloppy?)
- Mobility (will it roll down a ramp on its own?)
- Do you creatively use most of the space you were given to work with?

You are allowed to and in fact encouraged to try multiple iterations of your vehicle but your final submission may only use cardboard from a single piece of our thin cardboard.

Here's a sample:



Steps:

1. Make a rectangle in Inkscape that is 6.5 inches wide and 2.75 inches tall. Your entire creation must fit inside that space.
2. Design the pieces in Inkscape. Everything you want to cut should be 255 red and .1 mm when you are done. Put your name on it in black, no fill, .1 mm stroke. You may use black lines for parts that you want engraved but not cut. We are only doing vector art, no rastering (so no images that are not vector lines). If you want to have slots in your creation, make them 1.8mm wide. Make the holes for the wheels 1.8mm.
3. Cut it and see if it is what you thought it would be. You may use hot glue. If you like what you created, turn it in. If you feel you can do better, re-design and re-make it.
4. When you are done turn in your Inkscape file.
5. Show your completed vehicle that actually rolls to Mr. Hays to get checked off, then store your vehicle in your box. We'll be doing an optional contest to see which vehicle rolls the farthest when everyone is done.

Have fun, show up, make something cool!