

Woodblock Racer Project!

You are going to be combining your artistic, mathematic and construction skills for this project and building your very own Woodblock Racer!

Materials: (provided)

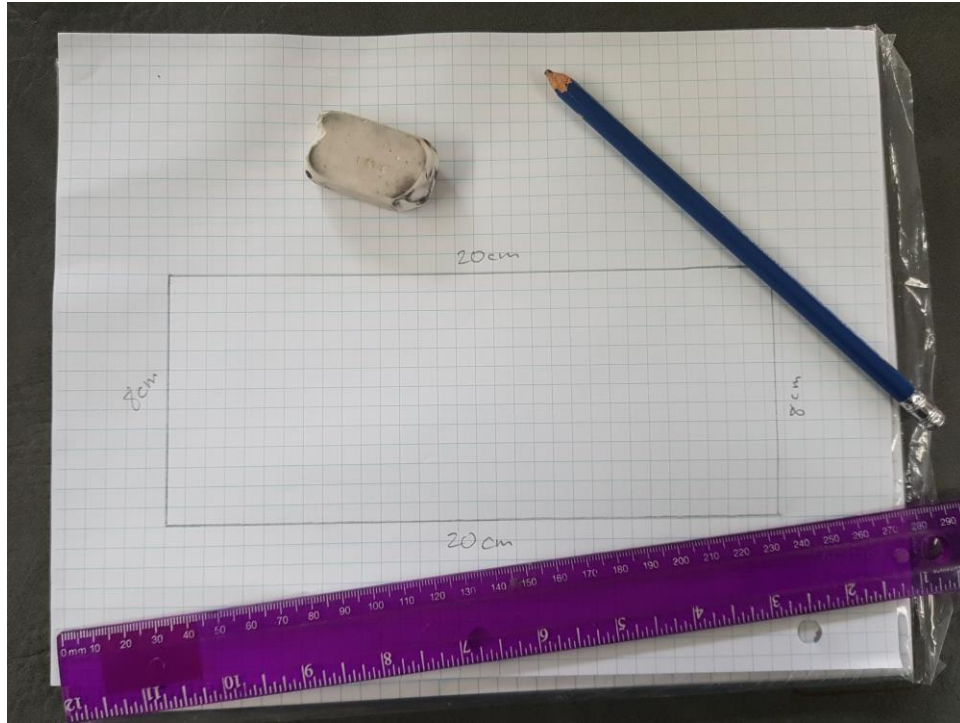
- ***1x Wooden Block (20cm Wide x 8 cm Tall)***
- ***4 x Plastic Racing Wheels (3cm diameter)***
- ***4 x Metal Wheel Axles (2.5 cm length)***
- ***4 x Sandpaper (various grits)***
- ***1 x Sanding Block***
- ***1 x Clear Plastic Materials Bag***



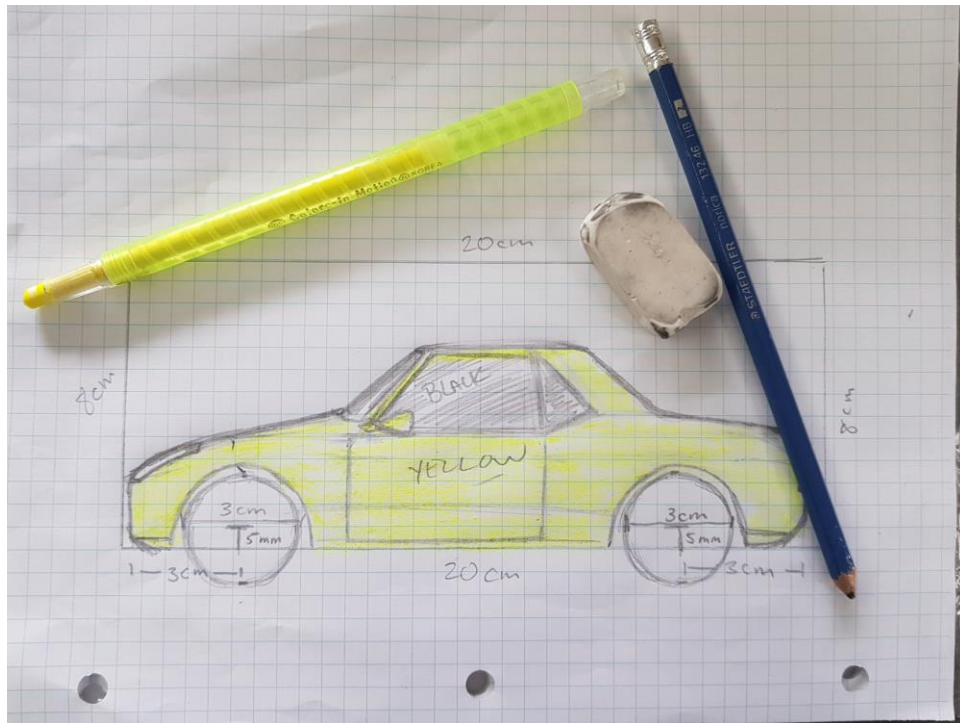
Additional supplies suggested: (Not supplied)

- **Graph paper for designing the Woodblock Racer**
- **Paint for painting your Woodblock Racer**
- **Paint brush for painting your Woodblock Racer**
- **Ruler for measuring your Woodblock Racer**
- **Saw (hand saw, jig saw or band saw) to shape your Woodblock Racer**
- **Hammer for fastening your wheels and axles for your Woodblock Racer**
- **Electric Drill and a 1/8 inch drill bit for making pilot holes for your wheel and axels for your Woodblock Racer**

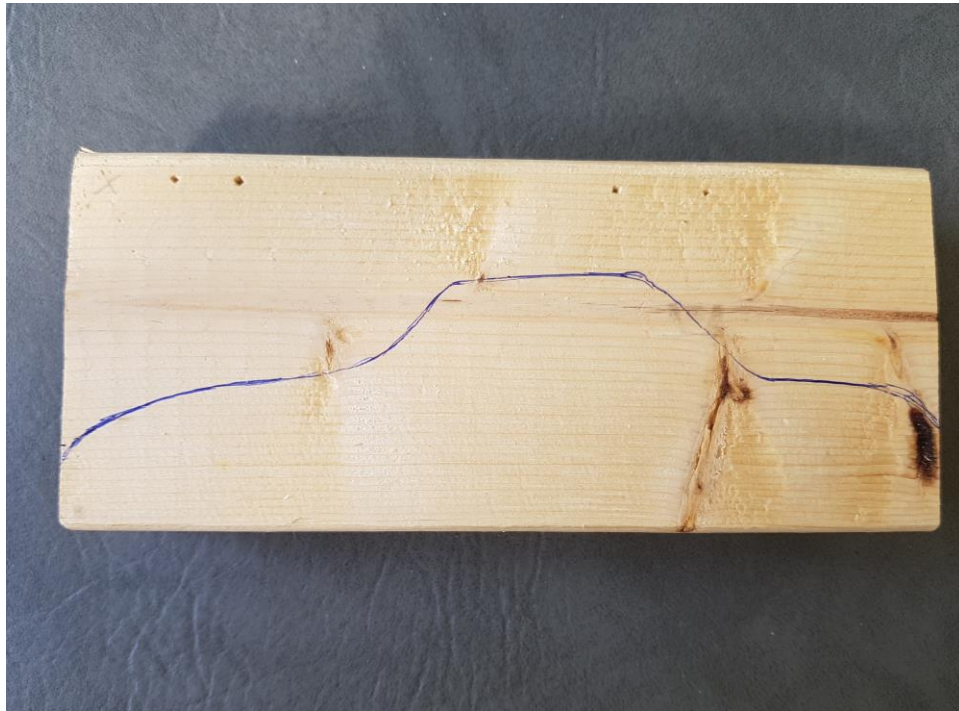
Step 1: Design



Step 2: Details and colour



Step 3: Finalize your design and trace your shape onto your wooden block



Step 4: An adult will cut or help cut out the shape



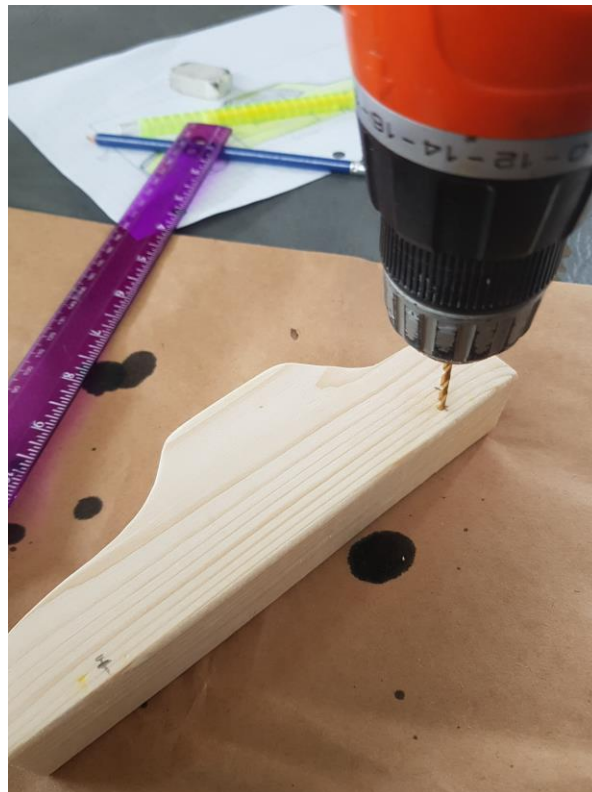
Step 5: Sand the Woodblock Racer

Start with the lowest grit paper, then make your way to the highest grit for the smoothest finish. Pro tip: Sand with the grain of the wood whenever possible.



Step 6: Drill pilot holes for wheels and axles

Pilot holes should be 5mm from the base and between 30 – 50mm from front or back of your Woodblock racer



Step 7: Paint and customize your Woodblock Racer

Give your Woodblock Racer several base coats, then add the details afterward.
Don't forget to add your class number to your racer. Pro tip: start with a white base coat to help your colours pop!
base coat to help your colours pop!



****Step 8: Lacquer your Woodblock Racer to protect the paint (This step will be done by an adult).***



Step 9: Fasten your wheels and axles

Use your pilot holes to gently fasten your wheels and axles. NOTE: Be sure to leave a little distance between the wheel and the body of your Woodblock Racer. Pro tip: place a quarter between your wheel and racer when fastening your axles to give you consistent gaps.



Step 10: Race!