



# Krazy Kit Cars



Using the kit provided make a car to travel 5m as fast as possible.

## STANDARD KIT

1 motor + motor clip  
2 AA batteries  
battery box  
small pulley

plastic corriflute sheet  
2 steel axles  
elastic band

## KIT OPTIONS

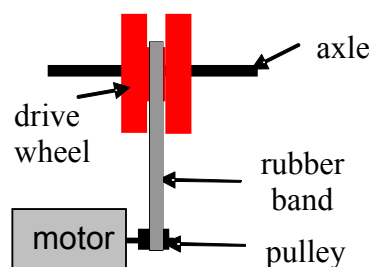
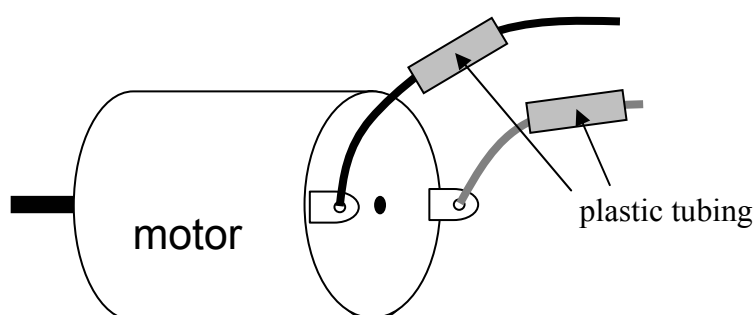
Wheels – range of sizes available

Drive wheel – range of sizes available

Aluminium rod and terminal block connectors for more advanced car body design

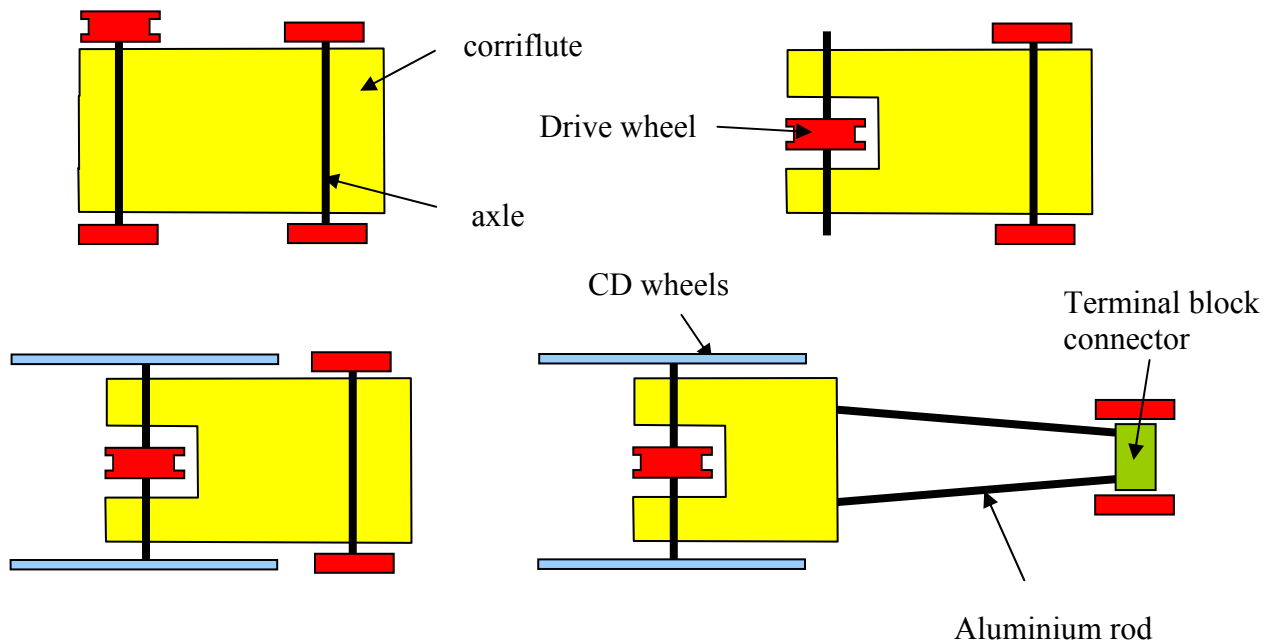
## CONSTRUCTION

1. Connect the battery box to the motor by pushing the wires through the holes in the motor and twisting to make a good electrical connection. Push the small pieces of plastic tubing over the connection for extra strength. **Remember** you can reverse the direction of the motor by switching the wires.
2. Push the small pulley on to the motor shaft.
3. Choose your drive wheel. This is the basic engine of your car!



4. Build a basic car with a body, axles and wheels.
5. TEST!

Here are some designs to help you.



### DESIGN PROBLEMS TO THINK ABOUT

- How many wheels will you use?
- Do you want large or small wheels?
- Where will you place the drive wheel? In the centre front, centre back or at the side?
- How can you reduce the weight of your car?
- How can you reduce the friction between the moving parts?

#### **Safety Note:**

**DO NOT** place your fingers or face near the motor when switched on.

**Please make sure that you are supervised as you cut the materials**

**This kits contains small parts which are not suitable for children under 3 years of age.**