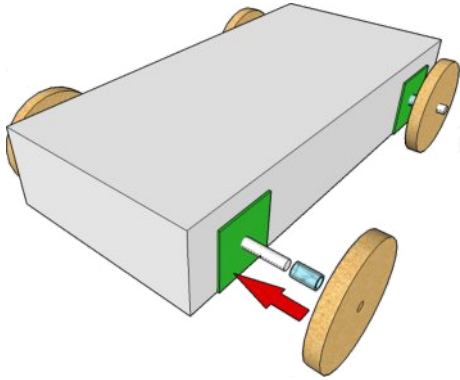


KIDS CAN DO IT!

Moving Along

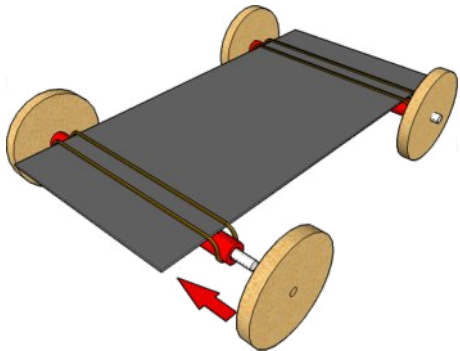
Basic Chassis Ideas:

- Push a pointed pencil or similar into a suitable size box to make axles holes opposite each other
- Cut squares out of good quality card and punch holes in the centre
- Thread through 5mm dowel axles
- Add spacers cut from plastic tube
- Fix pre-made and drilled wheels



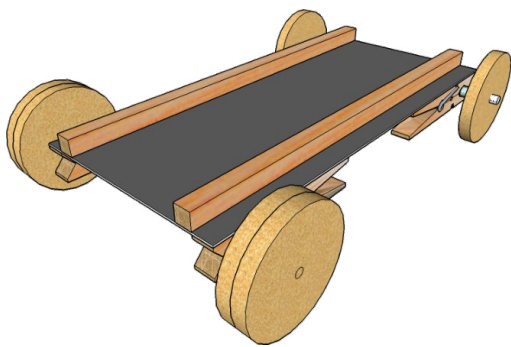
Or:

- Empty two old felt tip pens or biros
- Saw to length and fix to a rectangle of card with elastic bands

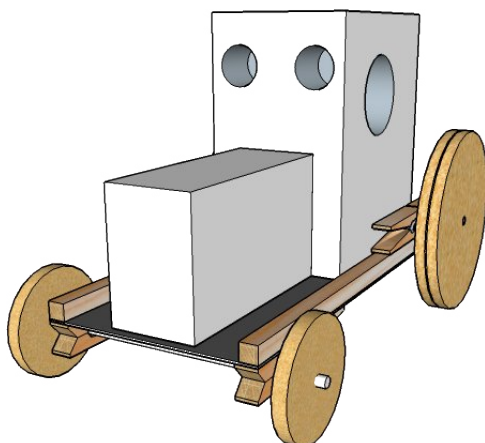
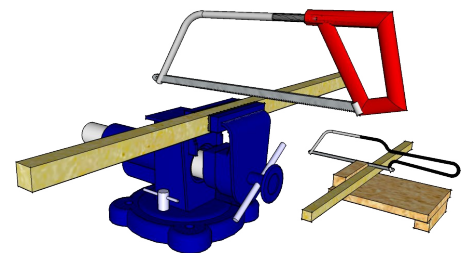


Or:

- Grip pieces of old felt tip pens using spring clothes pegs glued to chassis with PVA (add spacers)
- Stiffen chassis with stripwood glued to card

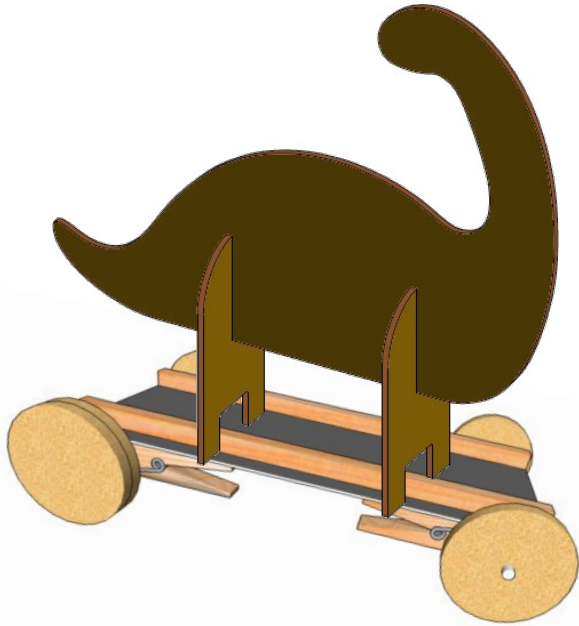


- Cut stripwood to length using a junior hacksaw fitted with a metal cutting blade (for safety)
- Hold work-piece securely in a vice



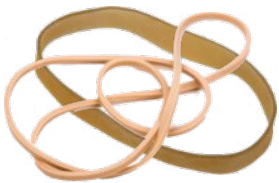
- Axle holding pegs can be glued to either side of the card to enable different sized wheels front and back
- Add boxes - e.g. to make a tractor

On the Move:

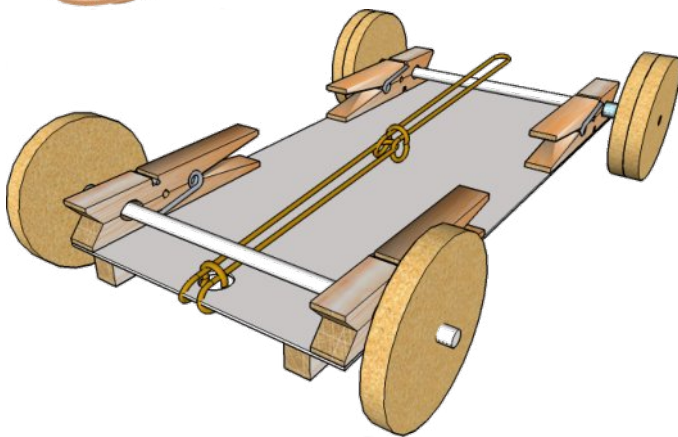


- A 'pull-along' Dinosaur perhaps?

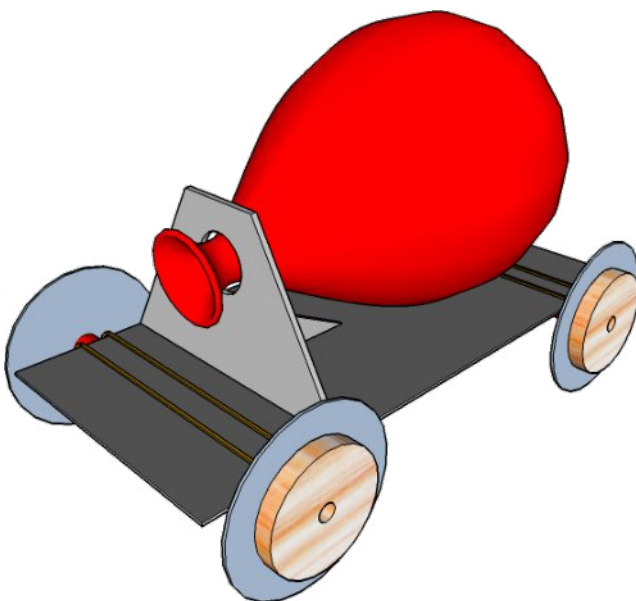
- Elastic bands knotted together to make it powered by a 'rubber motor'.



- Fasten the elastic bands to the rear axle so that you can wheel the vehicle backwards then let it go to see how far it goes.



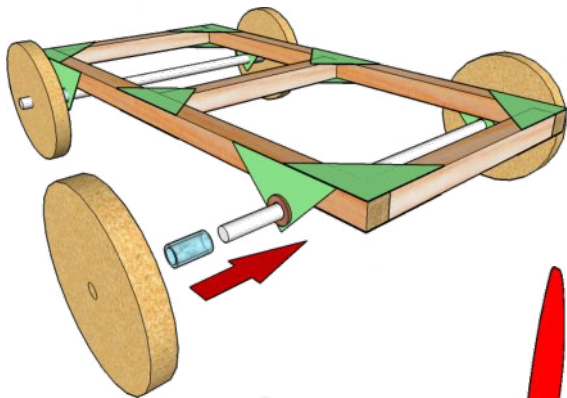
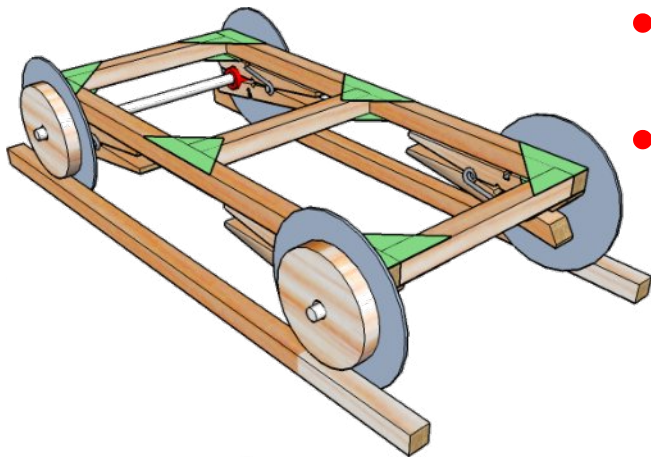
- Or leave the elastic bands loose and hold onto the rear axle as you wind it round by turning the rear wheels, then let it go to see it go further.



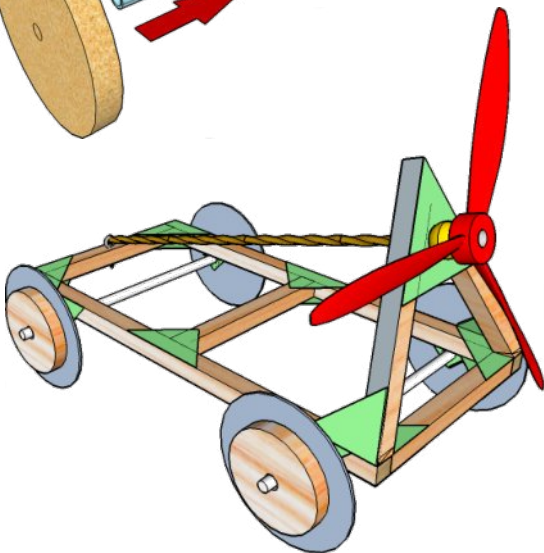
- Make a 'jet powered' vehicle by adding a card mount for a party balloon.
- Add card discs to the wheels to reduce 'rolling friction'.

Moving Up a Gear:

- Chassis can also be made by joining together stripwood.
- Cut stripwood to length, hold together and fix by gluing on 3cm x 3cm medium card triangles each side with PVA (*Note: adding card discs also creates flanged wheels for making trains*).



- The same card triangles also provide an alternative axle holder design. (*Could be reinforced with eyelets*).
- 'Airscrew' driven vehicles need a strong frame to withstand a stretched elastic band. (*Note: card discs added to reduce rolling friction*).



- Electric motors can be added to a frame using cable ties.
- A wide elastic band will work using a large bead as the 'driven', but narrow elastic bands would need a 'pulley' making by sandwiching a small wood disc between two card discs.
- Where should you mount the battery? (*remember rolling friction*)

