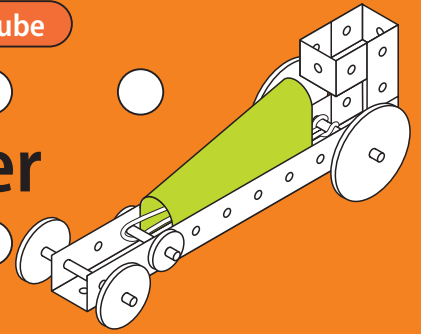




Visit TechCard at techcard.co.uk & Instagram & YouTube

Rubber Band Dragster

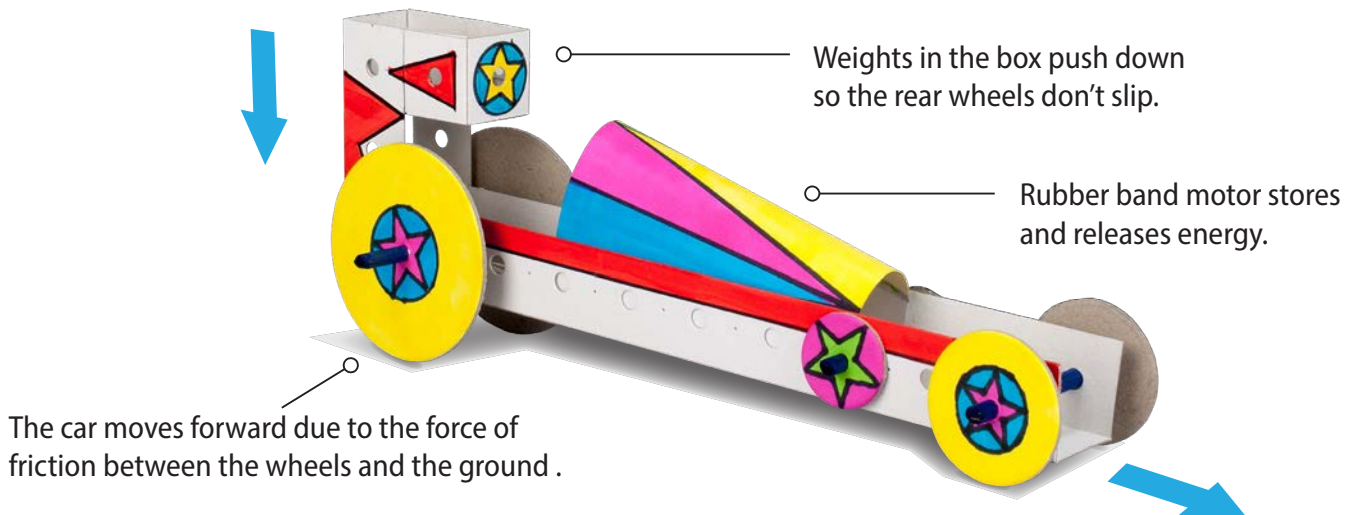
Move-it Kit Skill Level ● ● ● ○ ○



Pull the dragster back and let it go and watch it race away!

Explore potential energy and the important force of friction.

See how to make with TechCard on our website.



[Assembly videos on YouTube!](#)

Parts to make 1 model

Structural Parts		Mechanical Parts	
TechCard Strip	1	25mm Disc	2
TechCard Beam	1	40mm Wheel	2
		60mm Wheel	2
		300mm Dowel Axle	1

Additional Materials

Rubber Band (75mm x 1.5mm. Size No. 18) x 2
A5 Size Thin Card

You will have parts left over towards other models.

Parts to make 10 models

Structural Parts		Mechanical Parts	
TechCard Strip	5	25mm Disc	20
TechCard Beam	5	40mm Wheel	20
		60mm Wheel	20
		300mm Dowel Axle	5

Additional Materials

Rubber Band (75mm x 1.5mm. Size No. 18) x 20
A5 Size Thin Card x 10

Based on pupils sharing off-cuts between them.

Make the Rubber Band Dragster

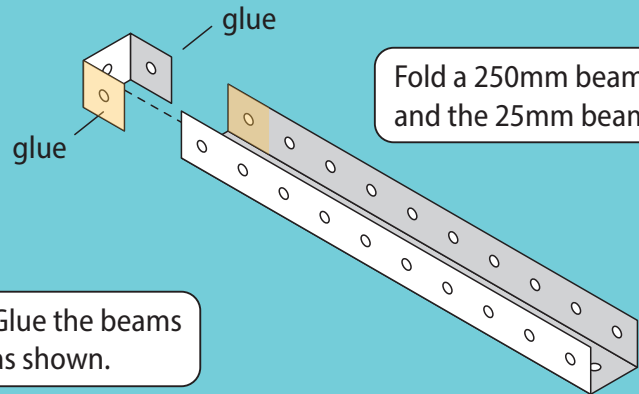


Before you start see
'Make with TechCard'
on our website.

1 Make the chassis.



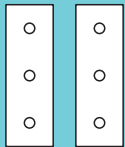
Cut a 25mm beam.



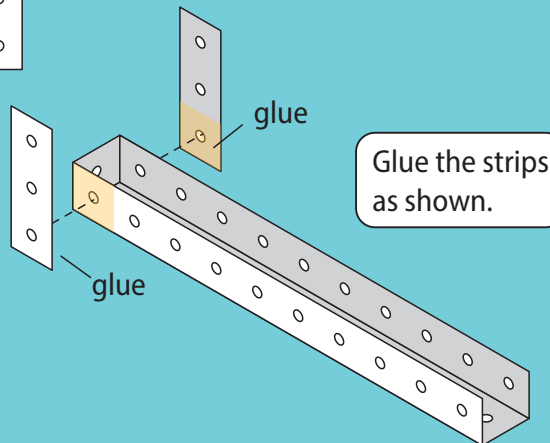
Fold a 250mm beam
and the 25mm beam.

Glue the beams
as shown.

2 Add the supports.

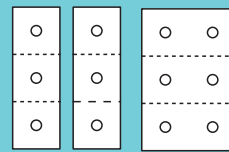


Cut two 75mm strips.

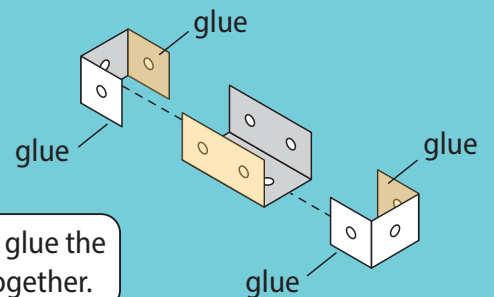


Glue the strips
as shown.

3 Make the box.

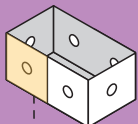


Cut two 25mm beams
and one 50mm beam.



Fold and glue the
beams together.

4 Fit the box.

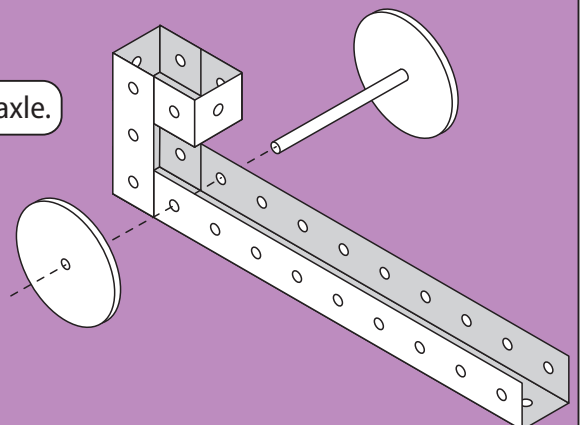


Glue the box on to
the strips as shown.

5 Fit the rear wheels.



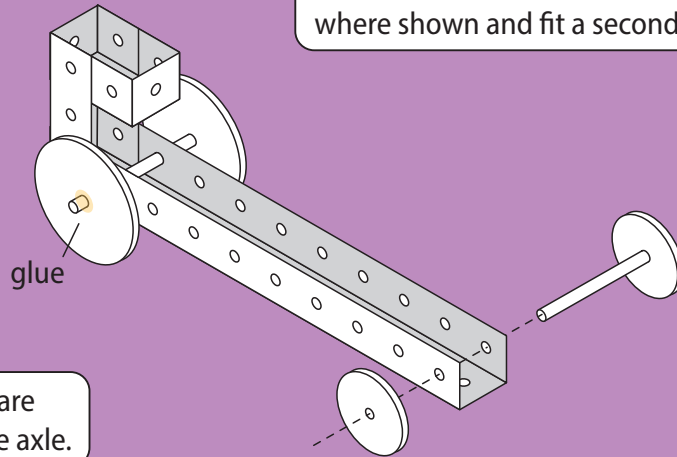
Cut a 75mm axle.



Fit a 60mm wheel to the end of the axle. Pass through
the beam where shown and fit a second 60mm wheel.

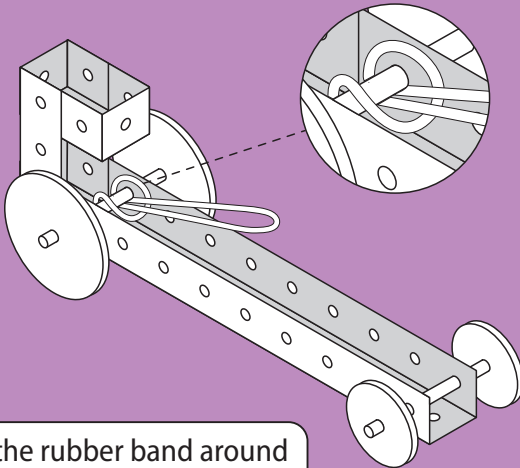
6 Fit the front wheels.

Cut a 60mm axle.



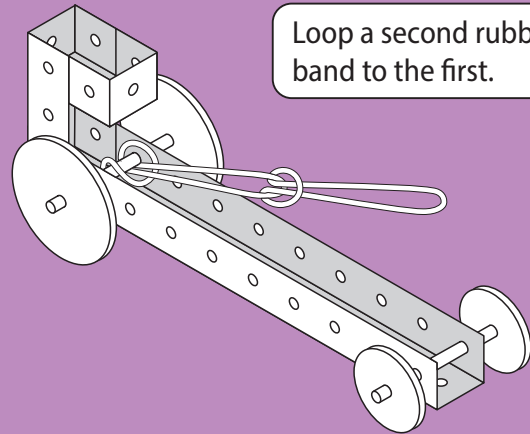
Check the rear wheels are straight and glue to the axle.

7 Fit the first rubber band.



Loop the rubber band around the axle as shown.

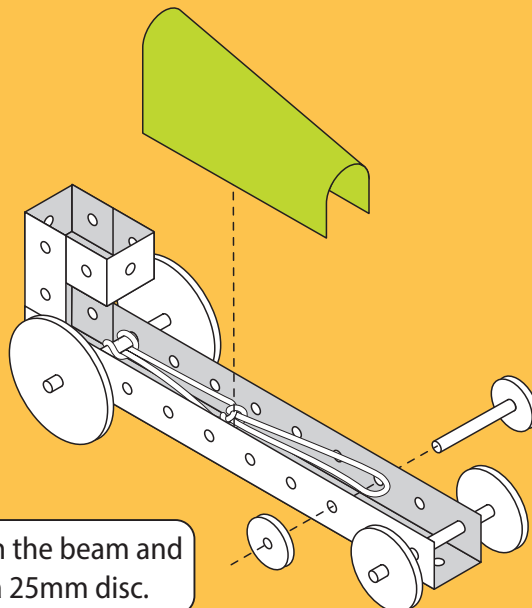
8 Fit the second rubber band.



Loop a second rubber band to the first.

9 Finish the dragster.

Cut a 50mm axle.



Pass the axle through the beam and rubber band and fit a 25mm disc.

Fit a 25mm disc to one end of the axle.

Cut the panel and fit into the beam.

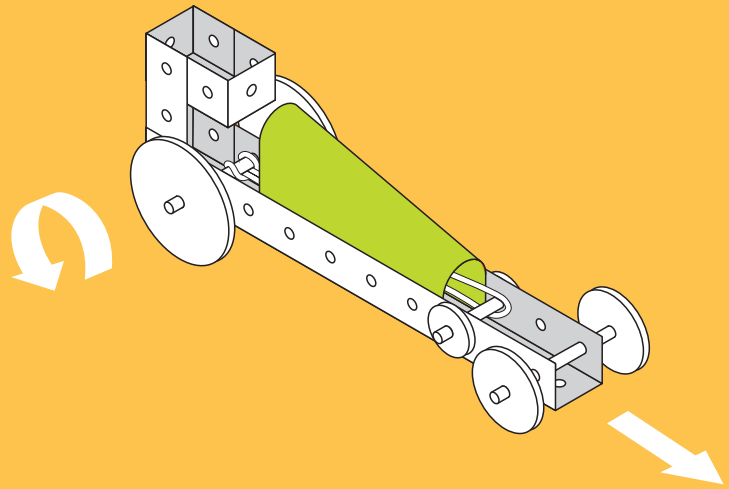
10 Operate your Dragster!

Put coins in the box to increase weight on the back wheels. This will increase friction so they don't slip when the car is released.

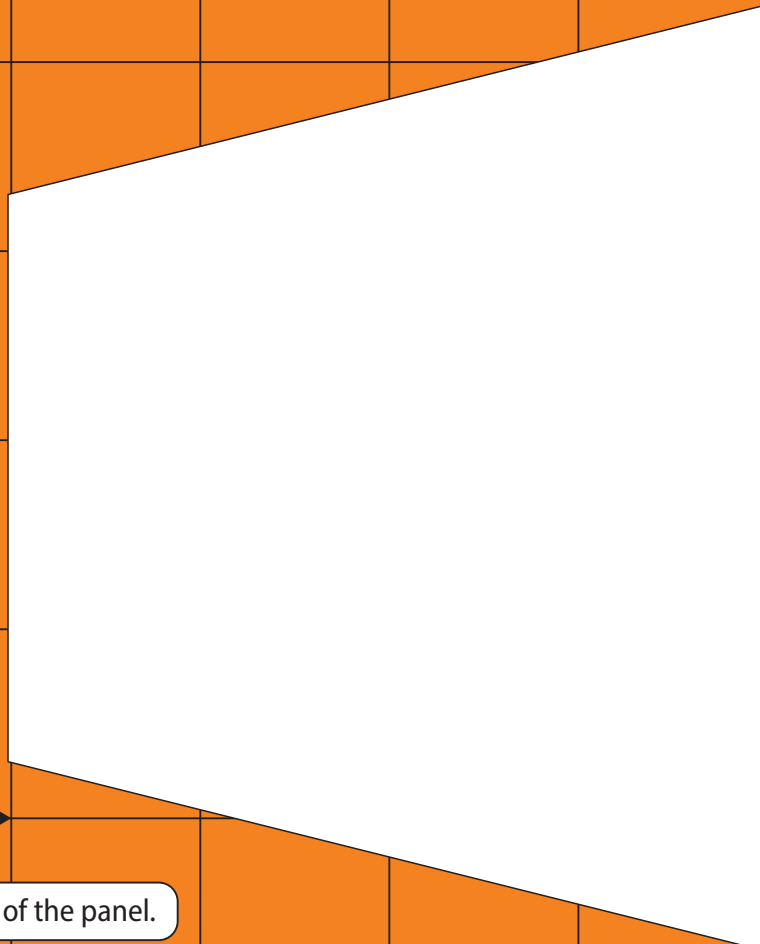
Give the rubber band a tug so it grips the axle. Turn the rear axle backwards to wind the rubber band. Count the turns and stop when it feels tight.

Release the car and see how far it goes and adjust the weights and the number of turns to get the best result.

The rubber band stores energy like a battery which is released when you let go.



Card Panel



Print and cut along the solid lines of the panel.