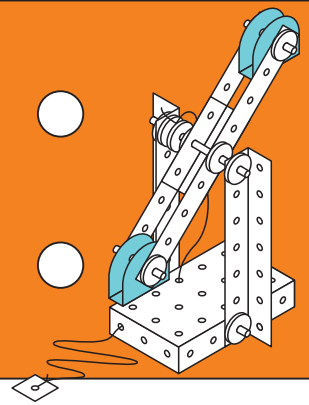




Visit TechCard at techcard.co.uk & Instagram & YouTube

Up & Over Ride

Move-it Kit Skill Level ● ● ● ○ ○



Build a toy ride that will keep spinning if you get your timing right!

Explore how momentum will rewind the pull-cord & keep it spinning.

See how to make with TechCard on our website.

The gondolas pivot on axles so they keep level.

The ride continues to spin and rewinds the cord to be pulled again.



Pull the cord to make the ride spin.

Assembly videos on YouTube!

Parts to make 1 model

Structural Parts

TechCard Strip	2
TechCard Girder	2
TechCard Beam	1
TechCard Base	1

Mechanical Parts

25mm Disc	12
300mm Dowel Axle	1

Additional Materials

500mm String
A5 Size Thin Card

You will have parts left over towards other models.

Parts to make 10 models

Structural Parts

TechCard Strip	20
TechCard Girder	20
TechCard Beam	10
TechCard Base	10

Mechanical Parts

25mm Disc	120
300mm Dowel Axle	10

Additional Materials

5M String
A5 Size Thin Card x 10

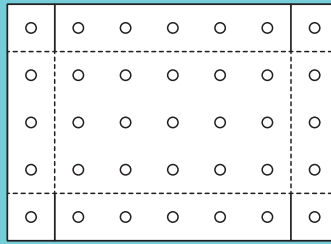
Based on pupils sharing off-cuts between them.

Make the Up & Over Ride

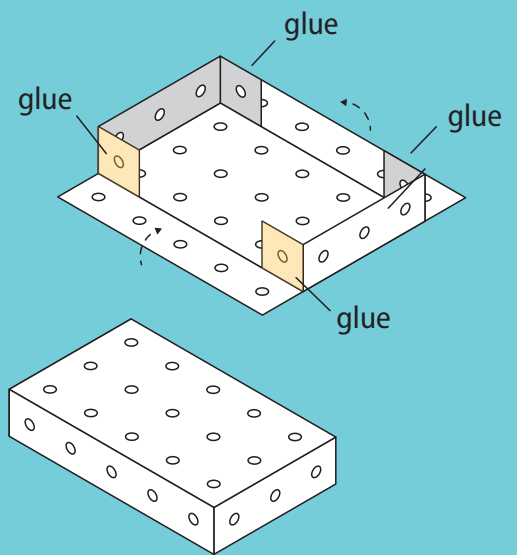


Before you start see
'Make with TechCard'
on our website.

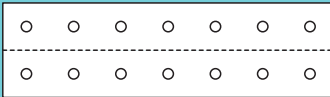
1 Make the base.



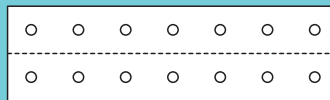
Fold and glue a
TechCard base.



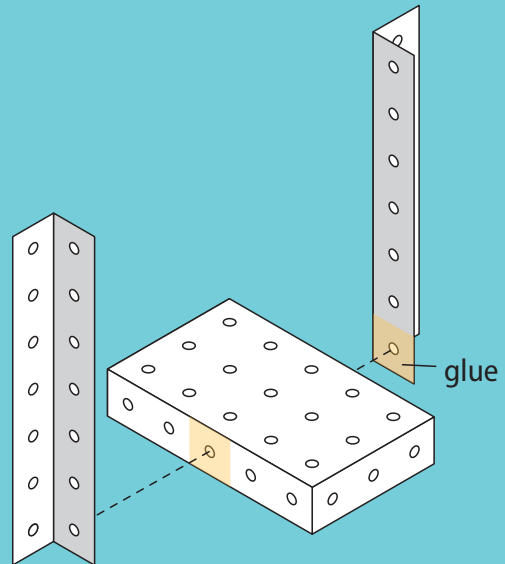
2 Fit the uprights.



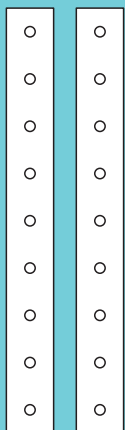
Cut two 175mm
girders.



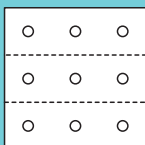
Fold and glue the girders to
the base where shown.



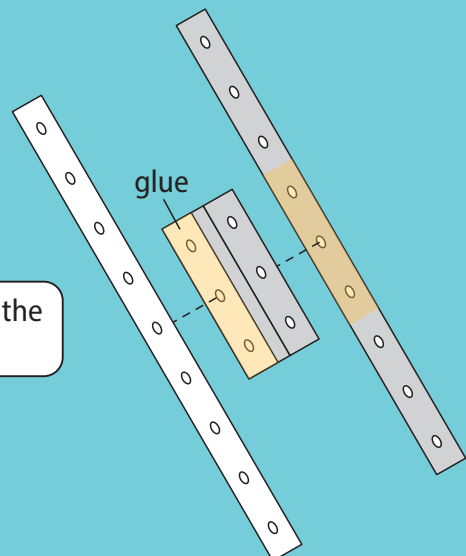
3 Make the boom.



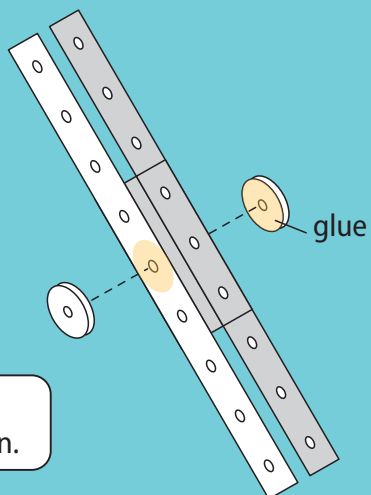
Cut two 225mm
strips and one
75mm beam.



Fold the beam and glue the
strips where shown.

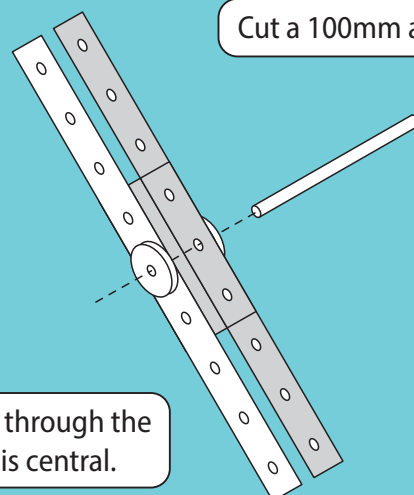


4 Finish the boom.



Glue two 25mm discs where shown.

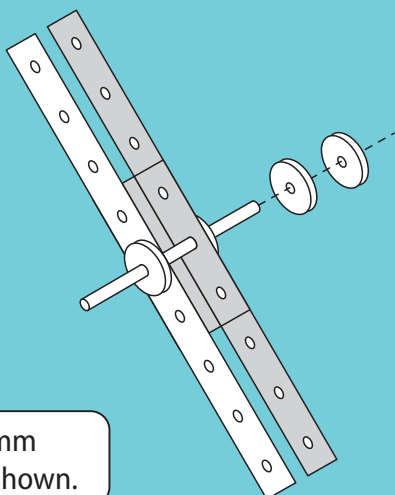
5 Fit the axle.



Cut a 100mm axle.

Fit the axle through the boom so it is central.

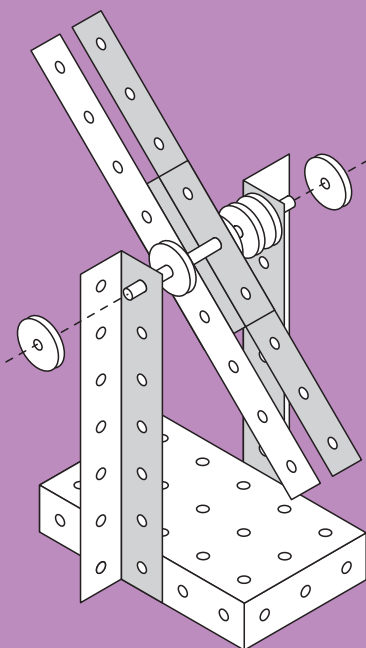
6 Fit the discs.



Glue two 25mm discs where shown.

7 Fit the boom.

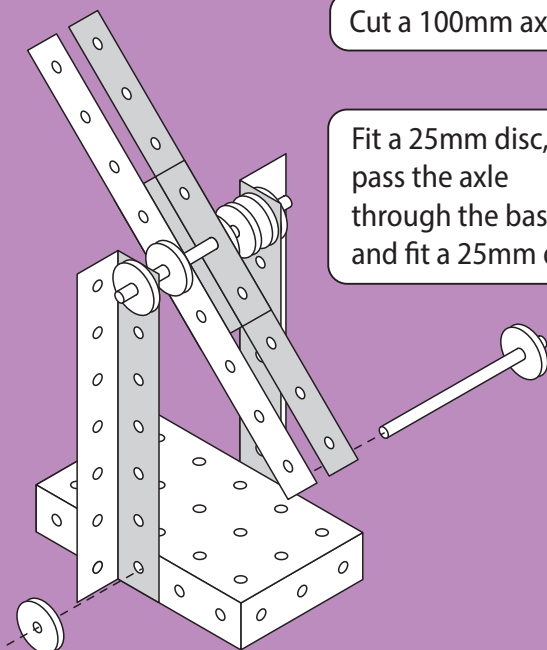
Fit the boom between the uprights and fit two 25mm discs.



8 Fit the lower axle.

Cut a 100mm axle.

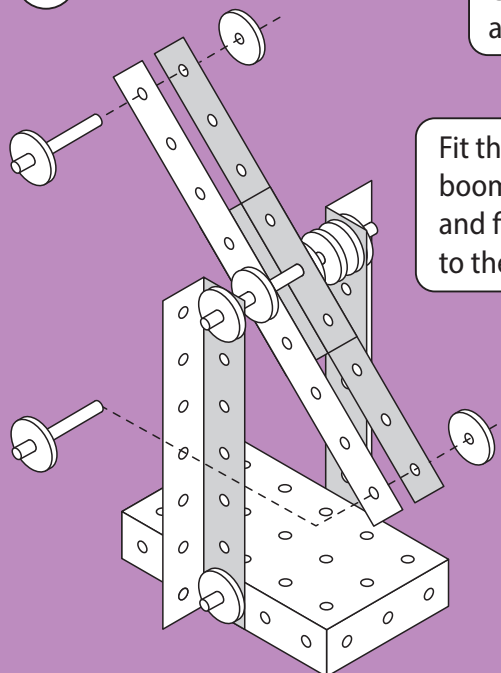
Fit a 25mm disc, pass the axle through the base and fit a 25mm disc.



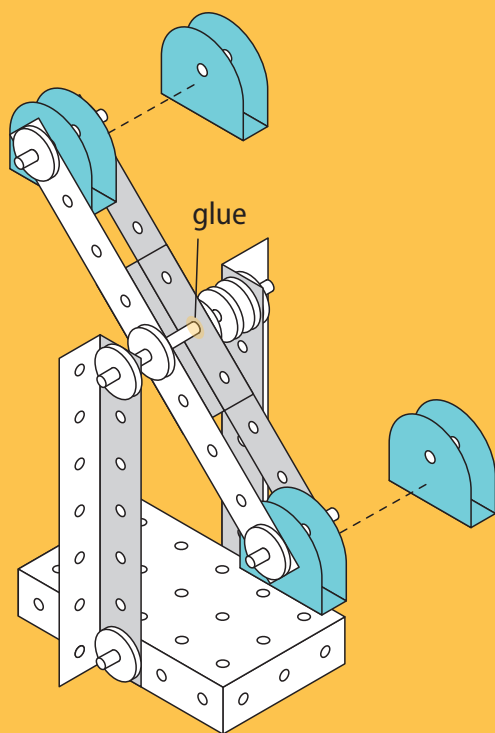
9 Fit the short axles.

Cut two 50mm axles.

Fit the axles to the boom as shown and fit 25mm discs to the ends.



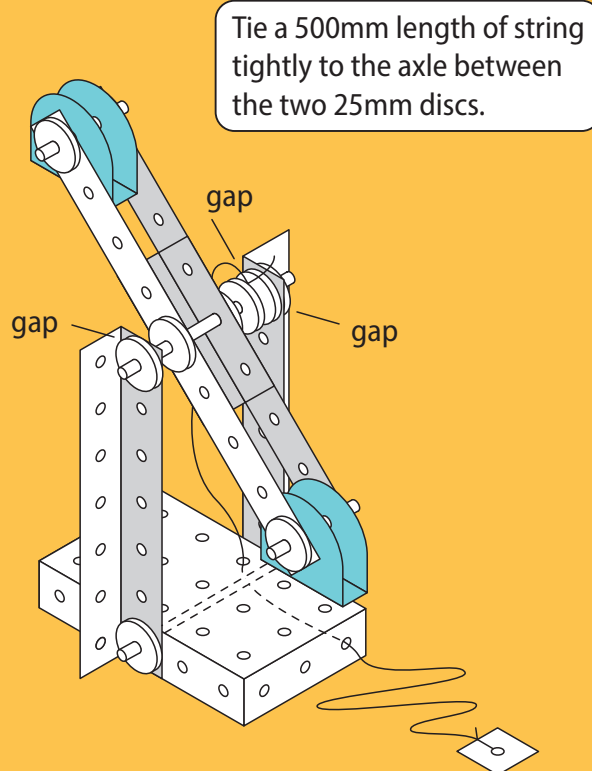
10 Fit the gondolas.



Cut and fold the body panels. Remove and refit the 50mm axles with the panels in place.

Glue the boom to the axle as shown.

11 Fit the cord.



Pass the string through the base and under the lower axle.

Check there are gaps so the mechanism works smoothly.

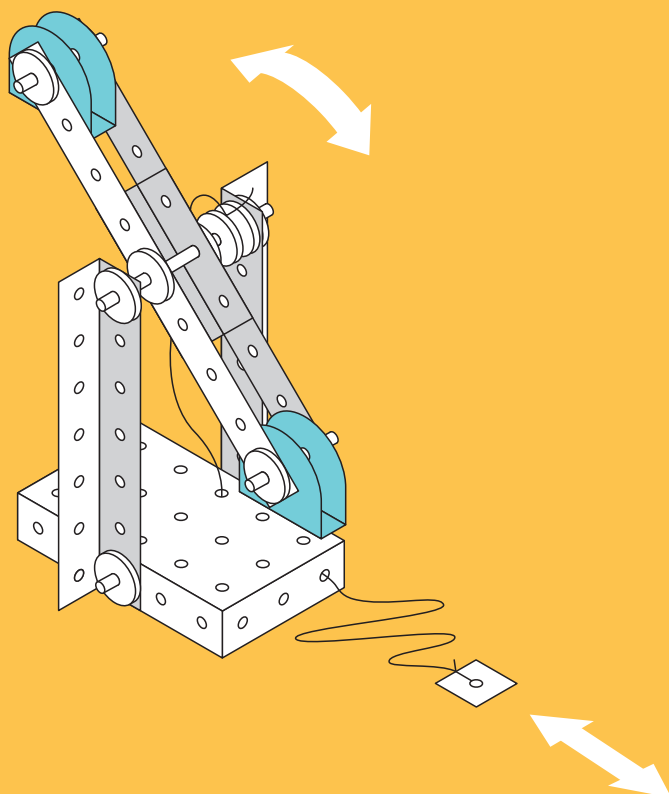
12 Operate your Up and Over Ride!

Rotate the ride to wind in the string.

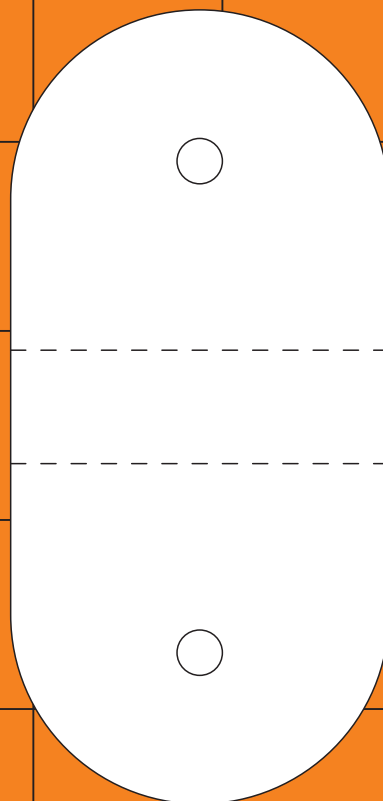
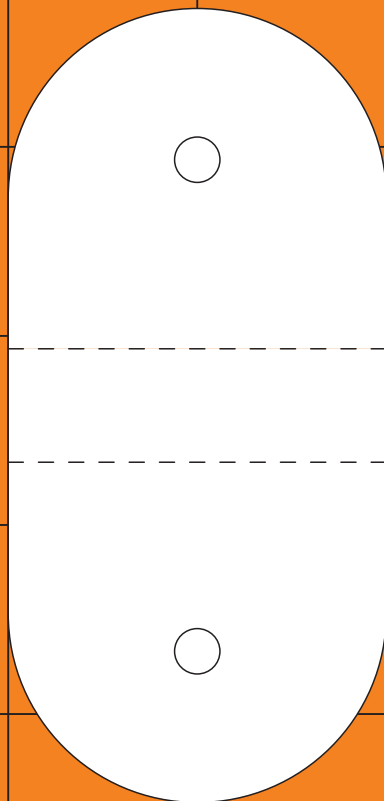
Hold the base and pull the string and the ride will spin.

As you reach the end of the string, pause, and let the string rewind. Pull again as the end of the string nears the base.

With practice you can keep the ride going like a yo-yo!



Card Panels



Print and cut along the solid lines and fold along the dotted lines of the two panels.

25mm

25mm