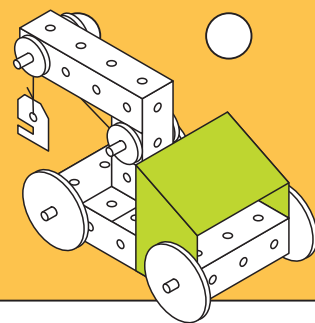




Visit TechCard at techcard.co.uk & Instagram & YouTube

Tow Truck

Make and Create: Skill Level ● ● ● ○ ○



Build a simple working tow truck to come to the rescue!

Explore winders and see how wheels make things move easily.

See how to make with TechCard on our website.



Assembly videos on YouTube!

Parts to make 1 model

Structural Parts

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

Mechanical Parts

25mm Disc	4
50mm Wheel	4
100mm Dowel Axle	2
50mm Dowel Axle	2

Additional Materials

400mm String
A5 Size Thin Card

You will have parts left over towards other models.

Parts to make 10 models

Structural Parts

TechCard Strip	5
TechCard Girder	5
TechCard Beam	5
TechCard Base	10

Mechanical Parts

25mm Disc	40
50mm Wheel	40
300mm Dowel Axle	10

Additional Materials

4M String
A5 Size Thin Card x 10

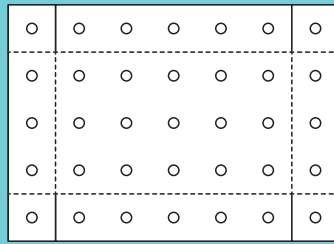
Based on pupils sharing off-cuts between them.

Make the Tow Truck

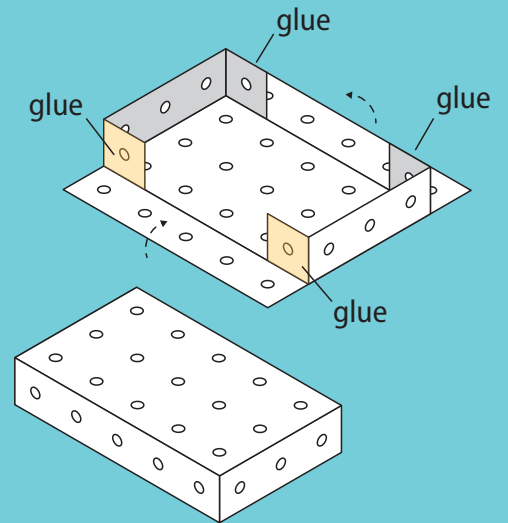


Before you start see
'Make with TechCard'
on our website.

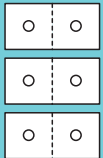
1 Make the chassis.



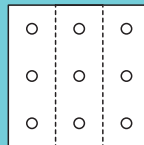
Fold and glue a TechCard
base to make the chassis.



2 Make the post.

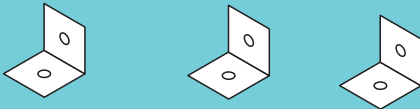


Cut three
25mm girders.

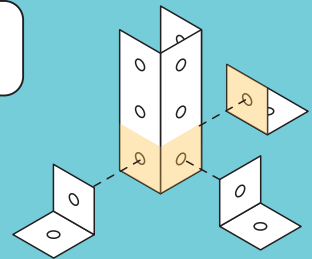


Cut a 75mm
beam.

Fold the girders
as shown.

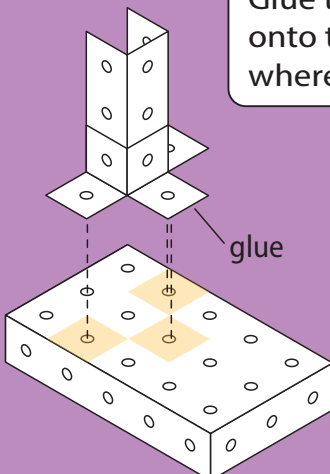


Fold the beam and glue the
three girders where shown.

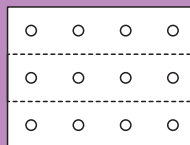


3 Fit the post.

Glue the post
onto the base
where shown.

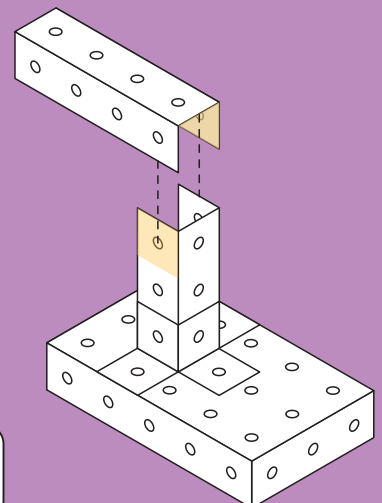


4 Fit the boom.



Cut a 100mm beam

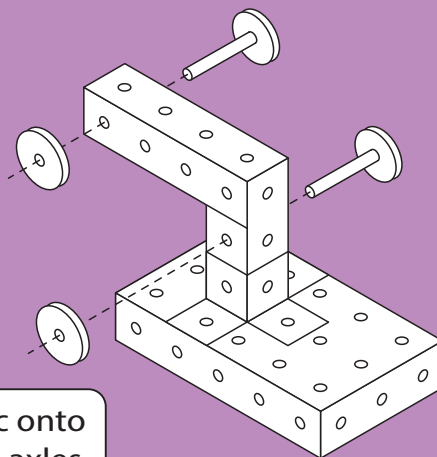
Fold the beam and glue to
the post where shown.



5 Fit the axles.

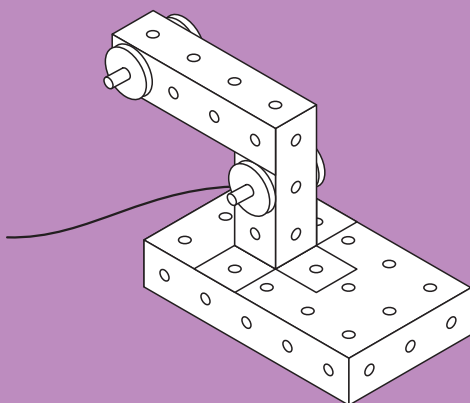
Fit the axles through the post and boom where shown

Fit a 25mm disc onto the end of two 50mm axles.

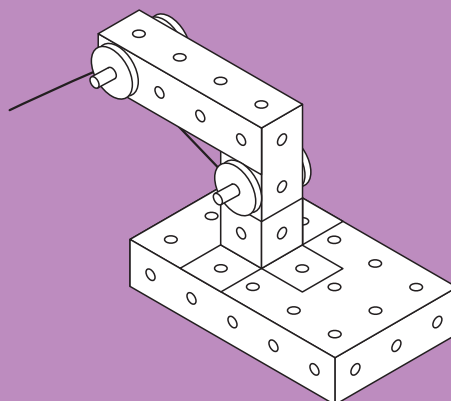


Fit a 25mm disc onto the ends of the axles.

6 Attach the string.



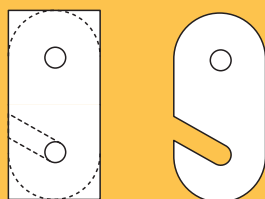
Tie a 400mm length of string around the lower axle inside the post.



Pass the string over the top axle.

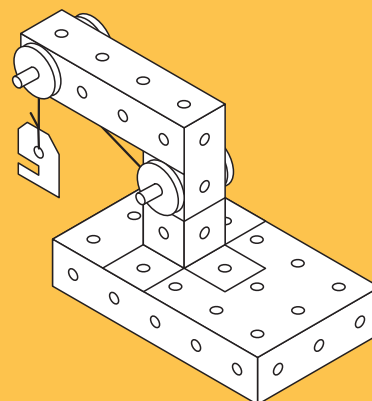
7 Make the hook.

Cut a 50mm strip.



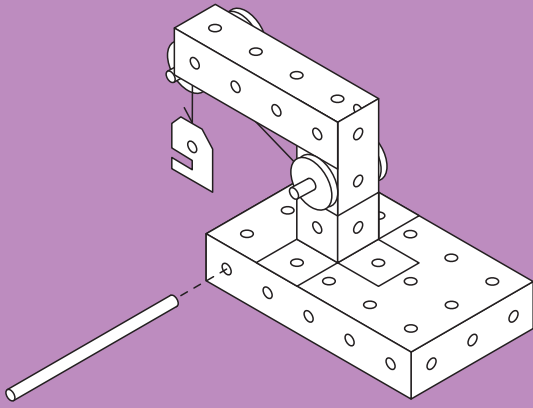
Cut the hook shape from the strip.

8 Fit the hook.

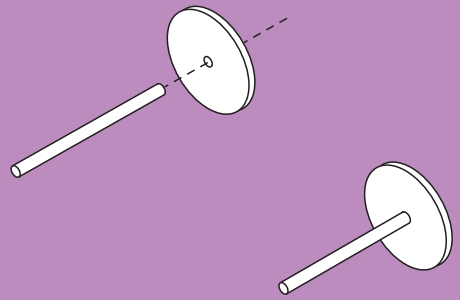


Tie the hook to the end of the string.

9 Prepare the axles.

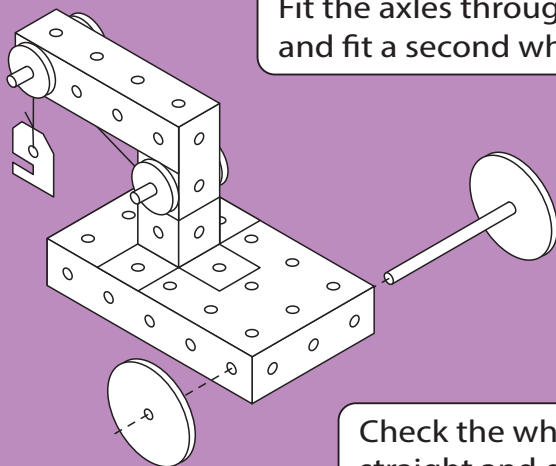


Check the axles
will turn freely.



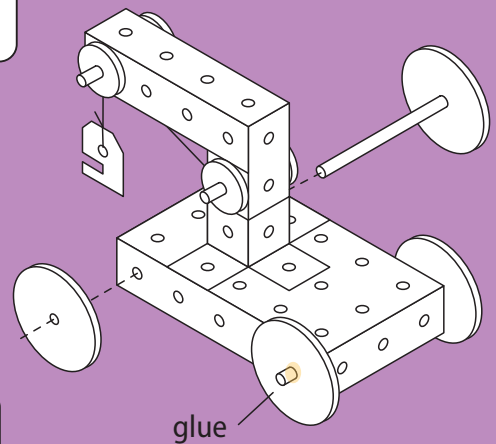
Fit a 50mm wheel onto the
end of two 100mm axles

10 Fit the wheels and axles.



Fit the axles through the chassis
and fit a second wheel on both.

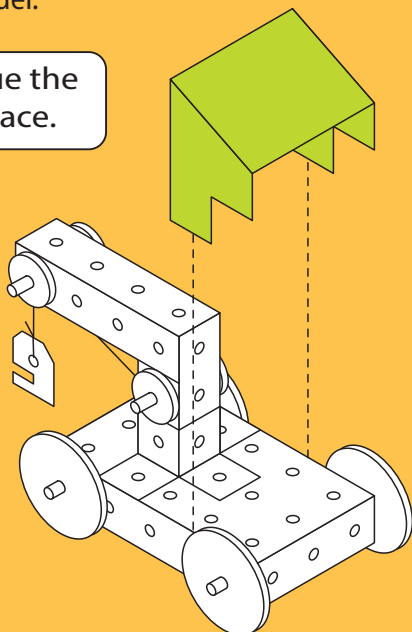
Check the wheels are
straight and glue in place.



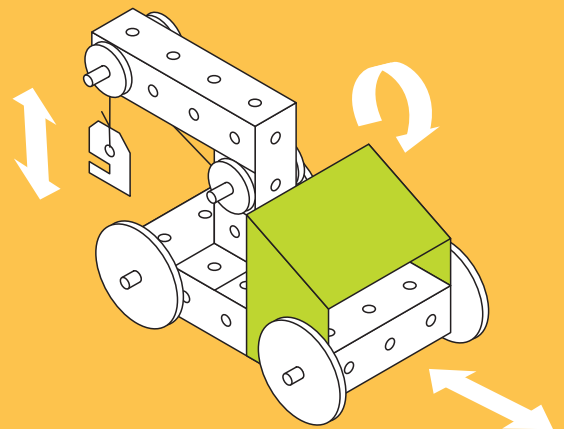
glue

11 Finish the model.

Cut, fold and glue the
body panel in place.



12 Operate your Tow Truck!



Turn the winder and the hook will go up and down.
The wheels make the truck move easily by reducing
the contact with the ground and reducing friction.

Card Panels

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

25mm
25mm

Alternatively, copy the panels onto thin card and cut and fold in the same way. Or you can design and make your own body panels!