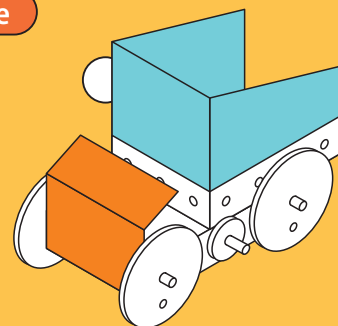




Visit TechCard at techcard.co.uk & Instagram & YouTube

Tipper Truck

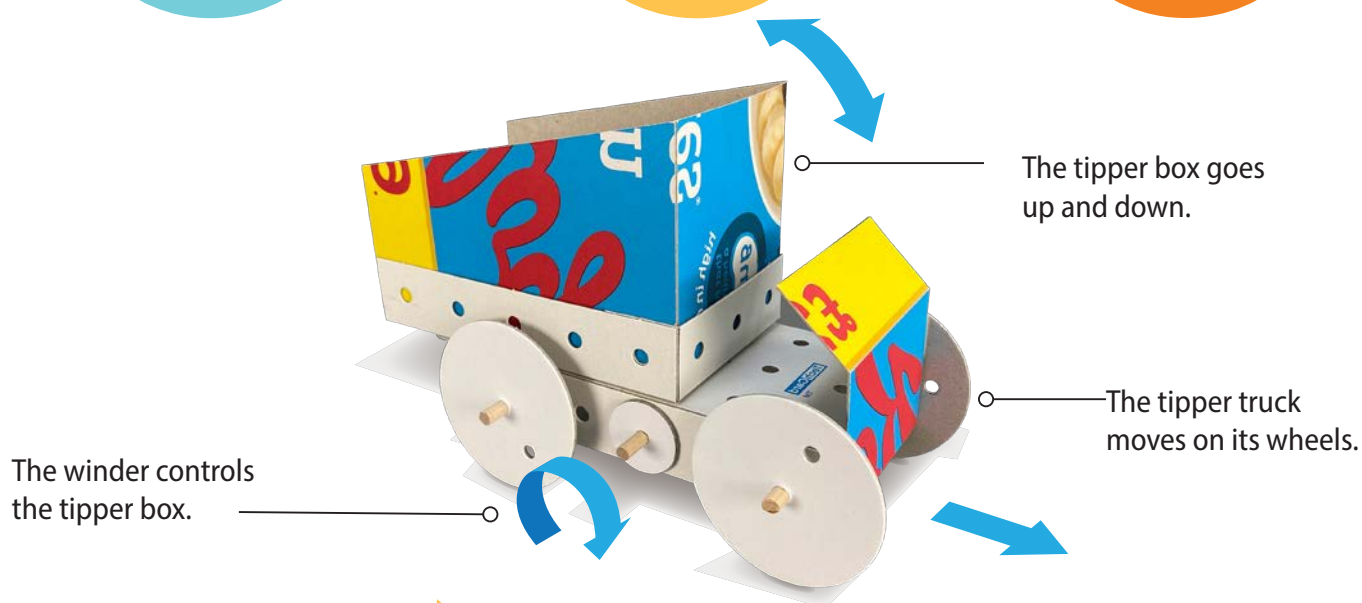
Make and Create: Skill Level ● ● ● ○ ○



Build a working tipper truck with a simple winding mechanism.

Explore wheels and axles, winders, hinges and strong shapes.

See how to make with TechCard on our website.



Assembly videos on YouTube!



Parts to make 1 model



Structural Parts

TechCard Girder 1
TechCard Base 2

Mechanical Parts

25mm Disc 2
60mm Wheel 4
100mm Dowel Axle 3

Additional Materials

A4 Size Thin Card
200mm Thin String

You will have parts left over towards other models.



Parts to make 10 models



Structural Parts

TechCard Girder 5
TechCard Base 20

Mechanical Parts

25mm Disc 20
60mm Wheel 40
300mm Dowel Axle 15

Additional Materials

A4 Size Thin Card x 10
2M Thin String

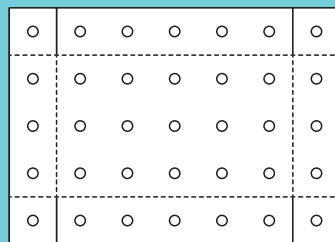
Based on pupils sharing off-cuts between them.

Make the Tipper Truck

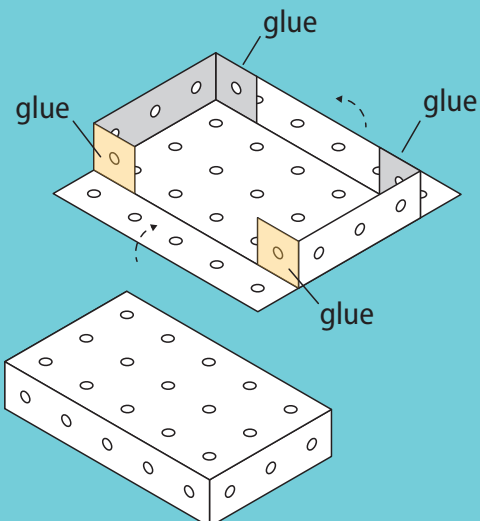


Before you start see
'Make with TechCard'
on our website.

1 Make the chassis.



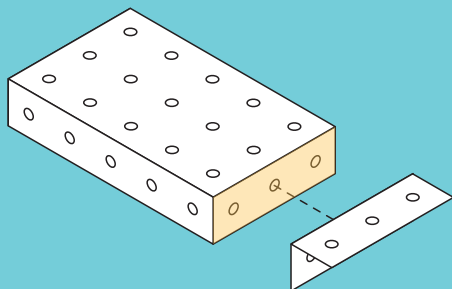
Fold and glue a TechCard
base to make the chassis.



2 Make the hinge.



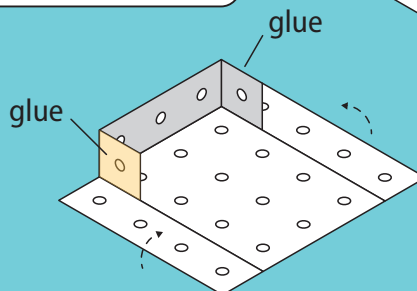
Cut a 75mm
girder.



Fold and glue the girder to
the base to make a hinge.

3 Make the tipper box.

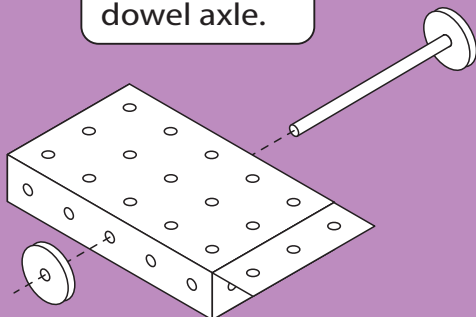
Cut 50mm from the
end of a second base.



Fold and glue the base to make
the tipping part of the truck.

4 Make the winder.

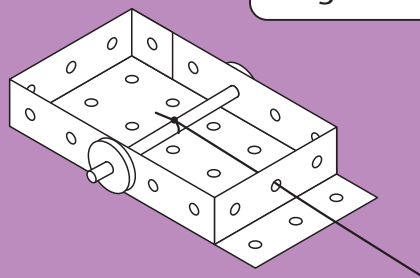
Cut a 100mm
dowel axle.



Fit a 25mm disc to one end of the axle and pass it
through the chassis as shown. Fit another 25mm disc.

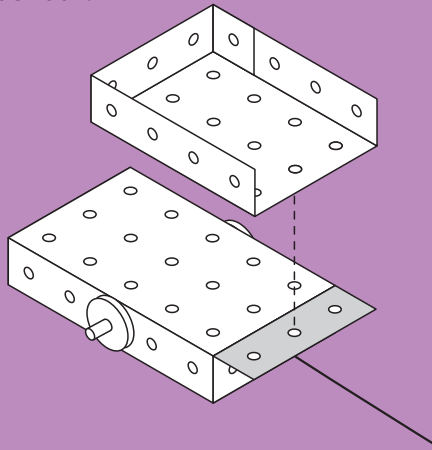
5 Tie the string.

Cut a 200mm
length of string.



Tie the end of the string to the dowel.
Pass the string through the chassis.

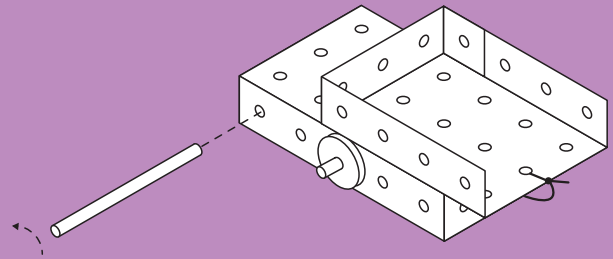
6 Glue the tipper box.



Glue the top of the hinge to the end of the tipper box.

7 Tie the tipper box.

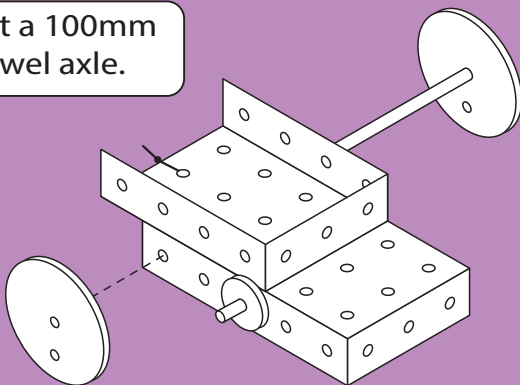
Tie the end of the string to the tipper box where shown.



Use an axle to widen the four corner holes so the axes will turn easily.

8 Fit the rear wheels.

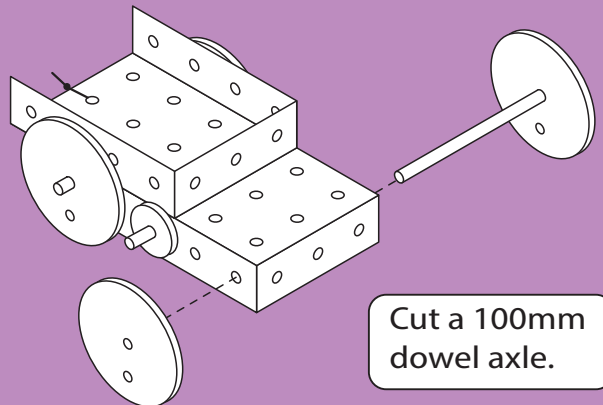
Cut a 100mm dowel axle.



Fit a 60mm wheel to one end of the axle and pass it through the chassis. Fit another 60mm wheel.

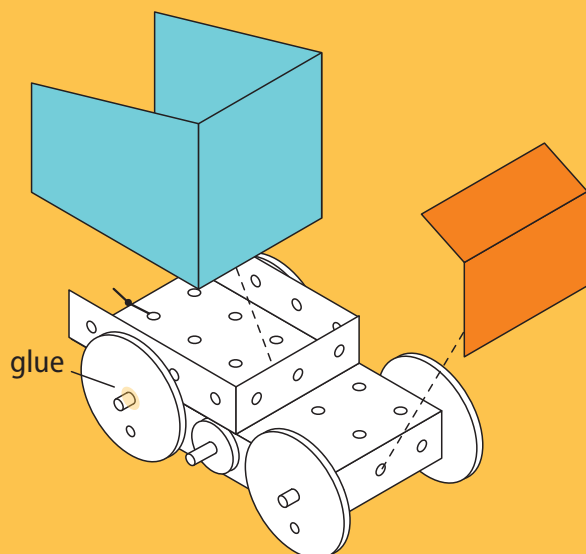
9 Fit the front wheels.

Cut a 100mm dowel axle.



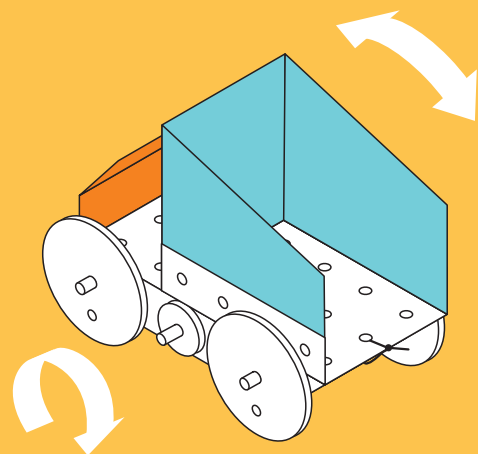
Fit a 60mm wheel to one end of the axle and pass it through the chassis. Fit another 60mm wheel.

10 Finish the model.



Print or copy the panels. Cut out, fold and glue in place. Or design and make your own!

11 Operate your Tipper Truck!



Wind the string so it is tight on the winder axle. Continue turning and the tipper box will rise. Turn the winder the other way and the tipper box will lower.

Card Panels

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

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!

25mm

25mm