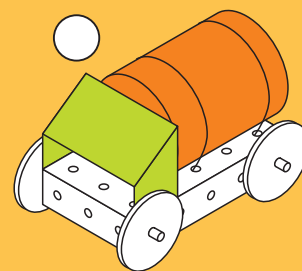




Visit TechCard at techcard.co.uk & Instagram & YouTube

Cola Can Tanker

Make and Create: Skill Level ● ○ ○ ○ ○ ○



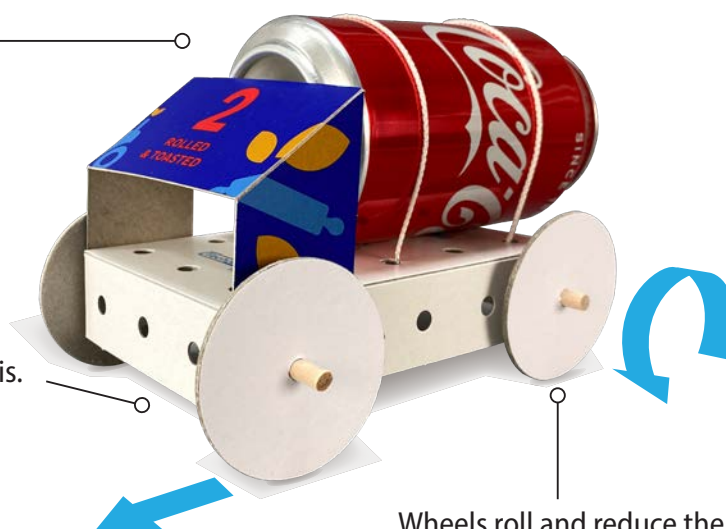
Be an eco builder and use an empty cola can to make a model truck!

Explore how wheels reduce friction so things can move easily.

See how to make with TechCard on our website.

Use upcycled materials to complete your model.

The TechCard Base folds into a strong shape to form a sturdy chassis.



Wheels roll and reduce the force of friction by reducing the contact with the ground.

Assembly videos on YouTube!

Parts to make 1 model

Structural Parts

TechCard Base 1

Mechanical Parts

50mm Wheel 4
100mm dowel 2

Additional Materials

Cola Can
A5 Size Thin Card
1M Thin String

You will have parts left over towards other models.

Parts to make 10 models

Structural Parts

TechCard Base 10

Mechanical Parts

50mm Wheel 40
300mm Dowel Axle 10

Additional Materials

Cola Can x 10
A5 Size Thin Card x 10
10M Thin String

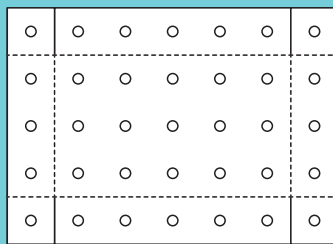
Based on pupils sharing off-cuts between them.

Make the Cola Can Tanker

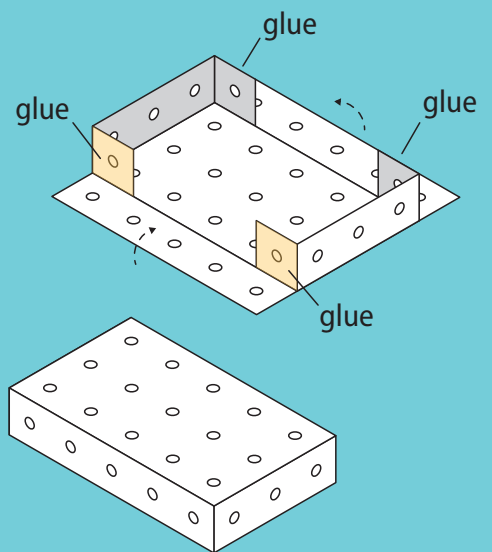


Before you start see
'Make with TechCard'
on our website.

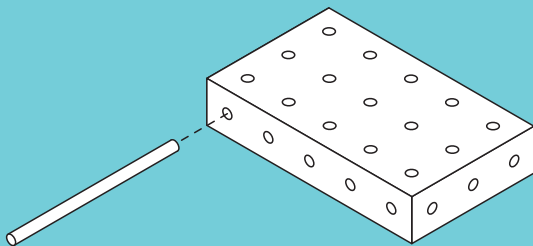
1 Make the chassis.



Fold and glue a TechCard
base to make the chassis.



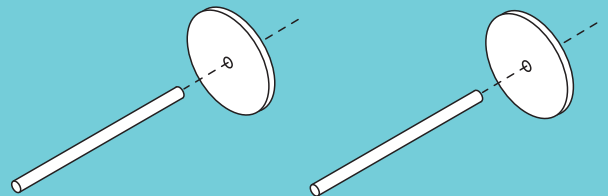
2 Check the holes.



Check the axles turn easily through the
four axle holes. Widen the holes if needed.

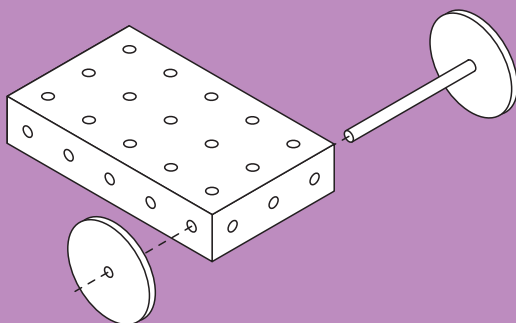
3 Wheels and Axles.

Use two
100mm axles.



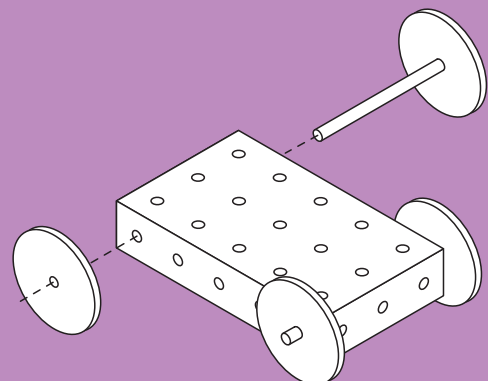
Carefully fit a 50mm wheel to
one end of each axle.

4 Fit the front wheels and axle.



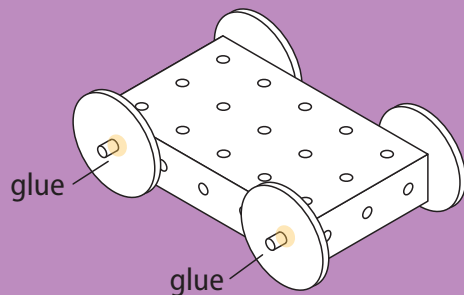
Fit the dowel through the chassis
where shown and fit a second wheel.

5 Fit the rear wheels and axle.



Fit the rear wheels and
axle in the same way.

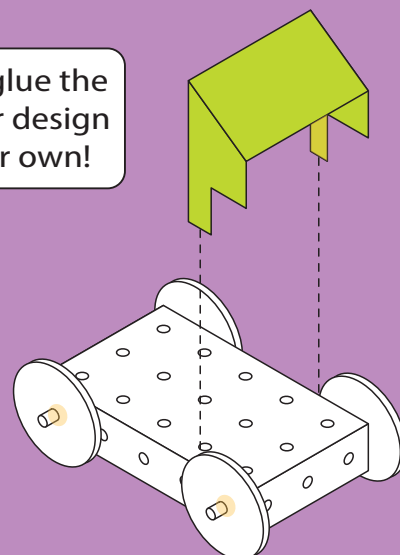
6 Glue the wheels.



Check the wheels are straight and glue them in place.

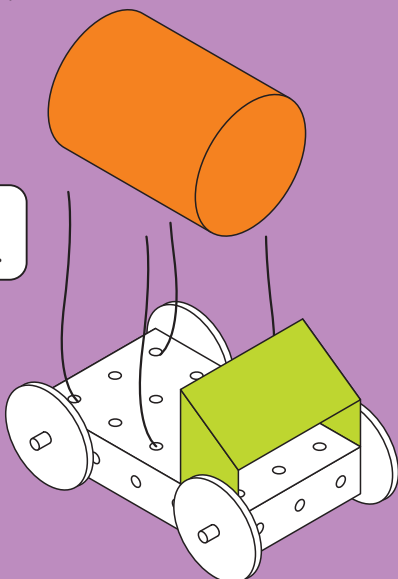
7 Fit the cab.

Cut, fold and glue the cab in place or design and make your own!

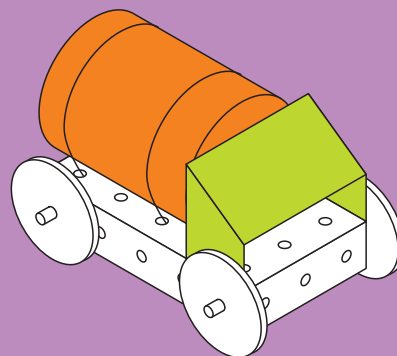


8 Fit the cola can.

Use string to tie the can in place.



9 Your finished Cola Can Tanker!

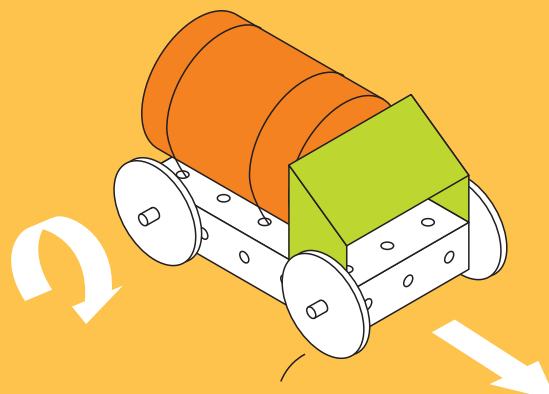


10 How do wheels and axles work?

Wheels and axles reduce 'friction'. Friction is an invisible force that is created between surfaces that move passed each other.

Friction can cause moving things to slow down so we try to reduce friction in machines.

Using wheels means only a small part of the vehicle is in contact with the ground as the vehicle moves and the wheels turn. This greatly reduces friction and means the vehicle can move easily.



Only a small part of the vehicle is in contact with the ground.

Card Panels

Print and cut along the solid lines and fold along the dotted lines.

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