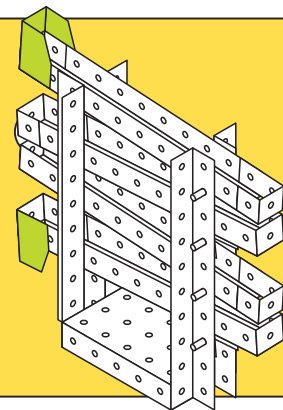




Visit TechCard at techcard.co.uk & Instagram & YouTube

Marble Run

Build-it Kit Skill Level ● ● ● ○ ○



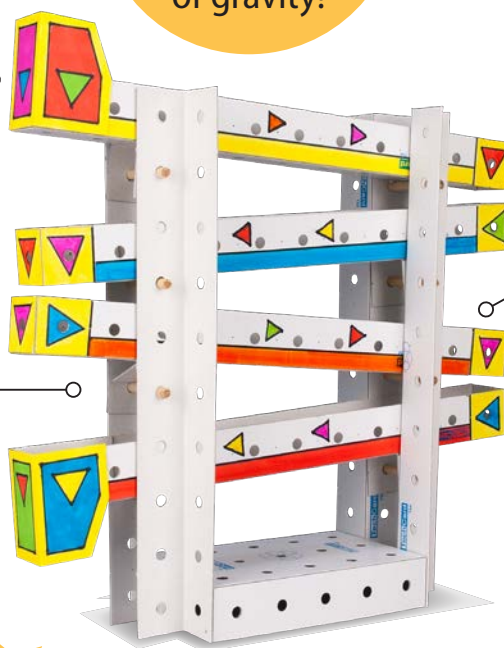
Build a marble run and let the good times roll!

Explore building strong shapes & how to control the force of gravity!

See how to make with TechCard on our website.

Marbles loaded here.

The ramps can be adjusted by moving the pegs.



The force of gravity causes the marbles to descend.



Assembly videos on YouTube!

Parts to make 1 model

Structural Parts

TechCard Strip	2
TechCard Girder	4
TechCard Beam	5
TechCard Base	1

Mechanical Parts

300mm Dowel Axle	2
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Additional Materials

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	40
TechCard Beam	50
TechCard Base	10

Mechanical Parts

300mm Dowel Axle	14
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Additional Materials

A5 Size Thin Card x 10

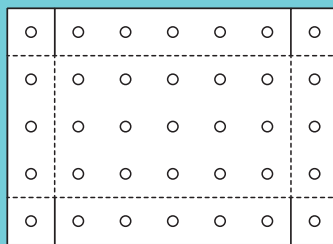
Based on pupils sharing off-cuts between them.

Make the Marble Run

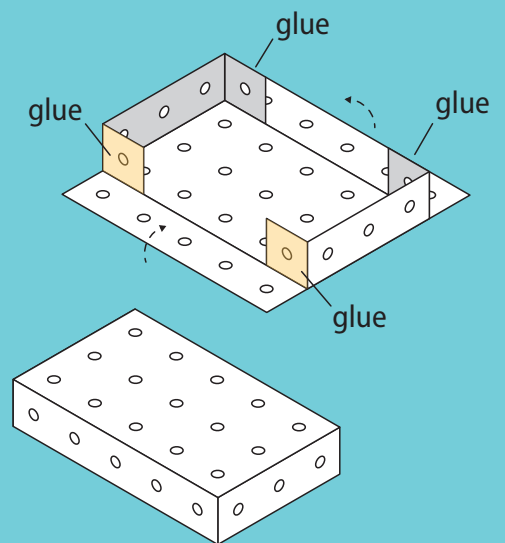


Before you start see
'Make with TechCard'
on our website.

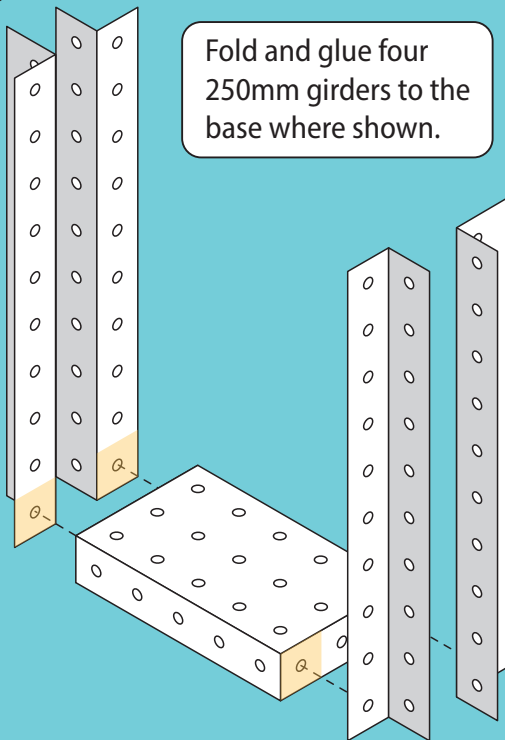
1 Make the base.



Fold and glue a
TechCard base.



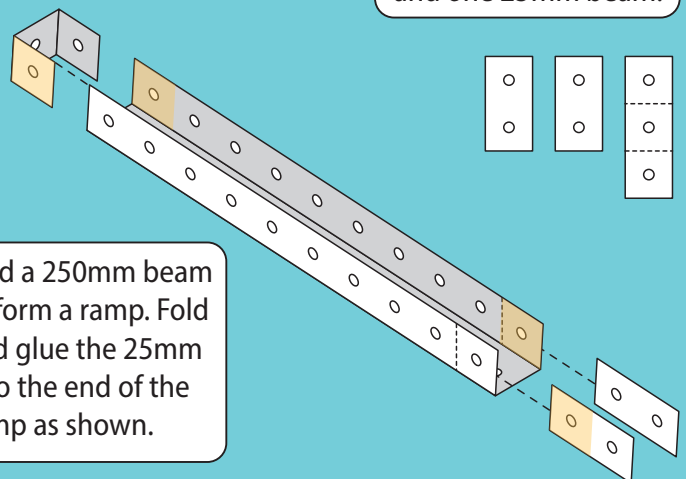
2 Make the towers.



Fold and glue four
250mm girders to the
base where shown.

3 Make a ramp.

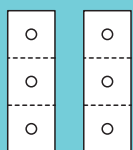
Cut two 50mm strips
and one 25mm beam.



Fold a 250mm beam
to form a ramp. Fold
and glue the 25mm
into the end of the
ramp as shown.

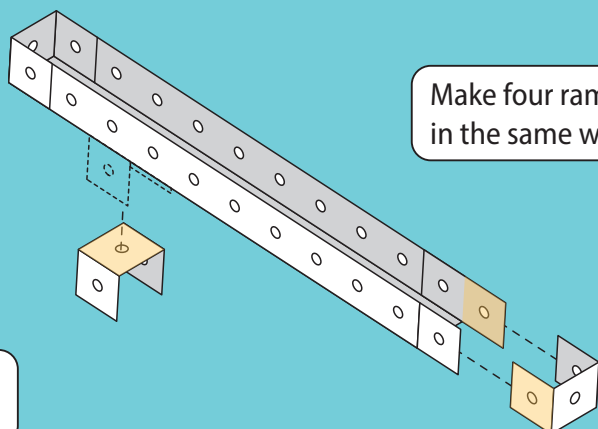
Glue the strips into the
end of the ramp as shown.

4 Finish the ramp.



Cut two 25mm
beams.

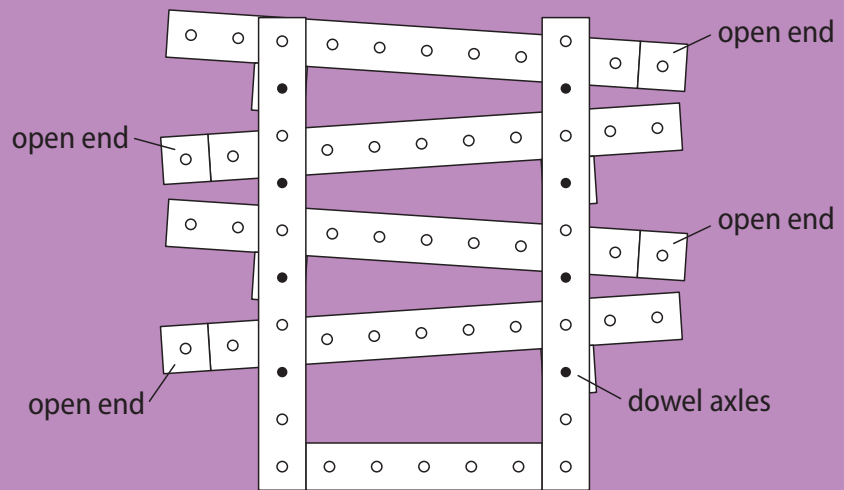
Fold the beams and glue
them where shown.



Make four ramps
in the same way.

5 Plan the assembly.

Use this diagram to position the ramps.



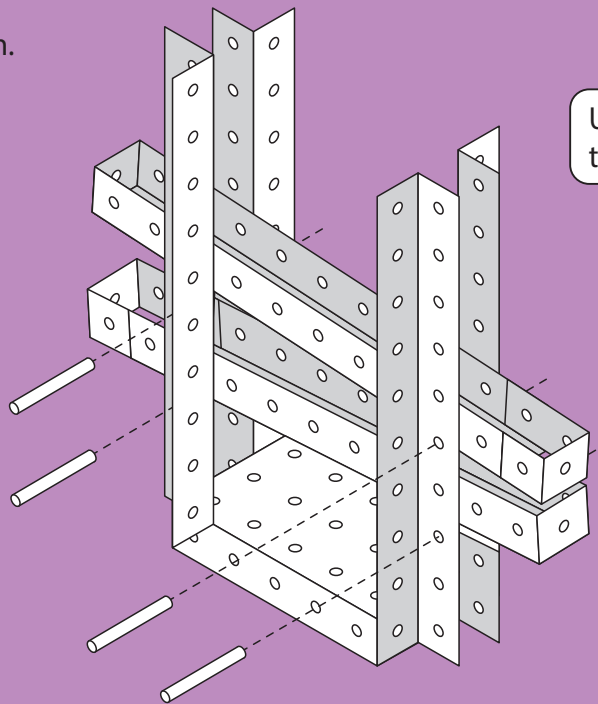
6 Assemble the marble run.



Cut four 50mm axles.

Use the diagram above to check the positions of the dowels.

Use the four dowels to fit the lower two ramps.



7 Finish the marble run.

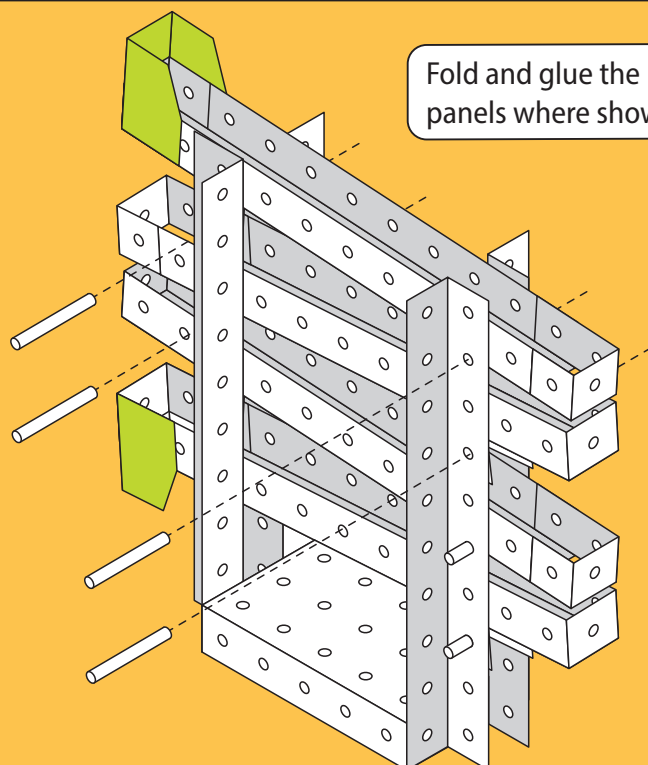


Cut four 50mm axles.

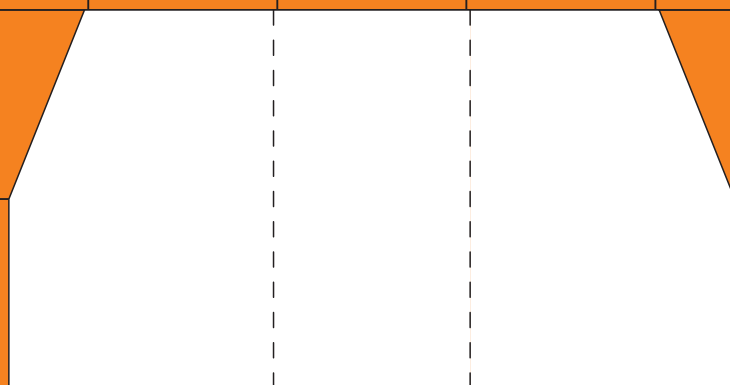
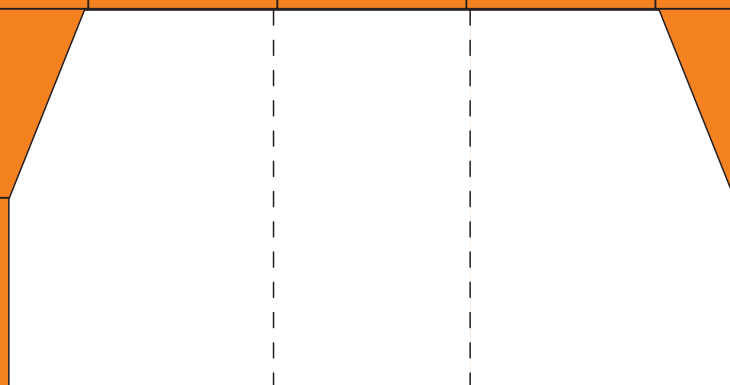
Use the four dowels to fit the upper two ramps.

Drop a marble into the top of the run and it will begin to roll and drop from ramp to ramp. The force of gravity is causing the marble to roll downwards. The ramp is controlling its fall.

Fold and glue the panels where shown.



Card Panels



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

25mm

25mm