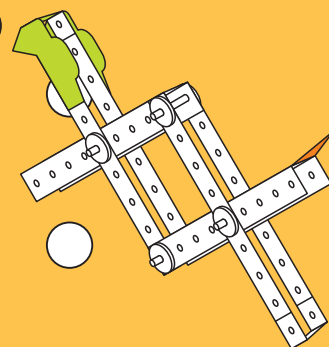




Visit TechCard at techcard.co.uk & Instagram & YouTube

Snapping Snake

Make and Create: Skill Level ● ● ○ ○ ○



Build a sneaky snake but watch out for its snapping bite!

Explore important simple mechanisms like linkages & levers.

See how to make with TechCard on our website.



Parts to make 1 model

Structural Parts

TechCard Strip	4
TechCard Beam	2

Mechanical Parts

25mm Disc	8
50mm Dowel Axle	4

Additional Materials
A5 Size Thin Card

You will have parts left over towards other models.

Parts to make 10 models

Structural Parts

TechCard Strip	40
TechCard Beam	20

Mechanical Parts

25mm Disc	80
300mm Dowel Axle	7

Additional Materials
A5 Size Thin Card x 10

Based on pupils sharing off-cuts between them.

Make the Snapping Snake

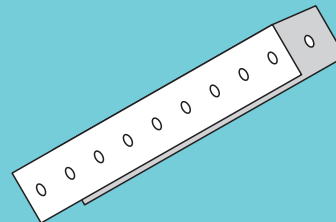
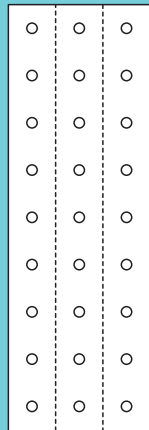


Before you start see
'Make with TechCard'
on our website.

1 Make the first section.

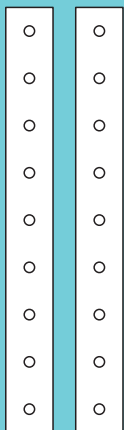


Cut 25mm from a beam.



Fold the beam to shape.

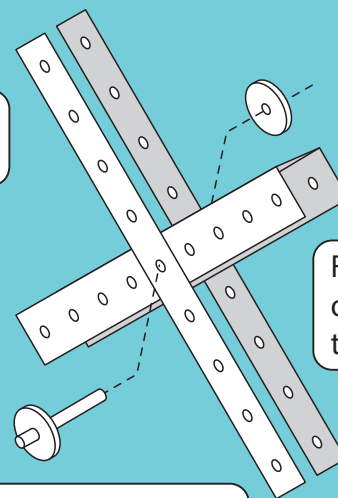
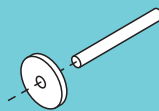
2 Make the first section.



Cut two 225mm strips.

3 Assemble the first section.

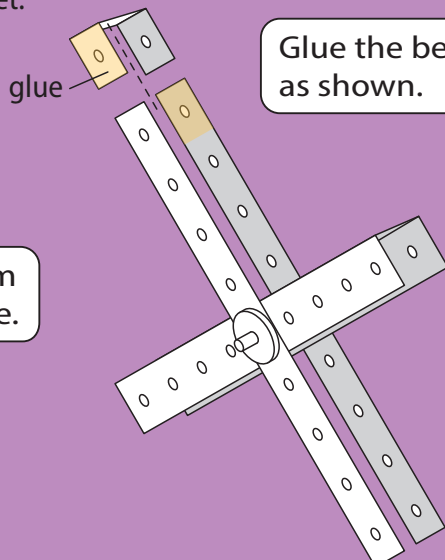
Fit a 25mm disc onto the
end of a 50mm axle.



Fit a 25mm disc
onto the end of
the axle.

Arrange the beam and strips as shown and
pass the axle through the centre holes.

4 Fit the bracket.

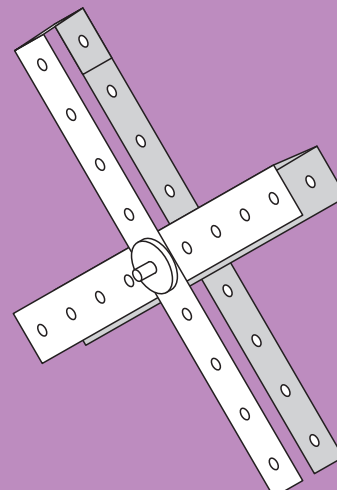


Glue the beam
as shown.

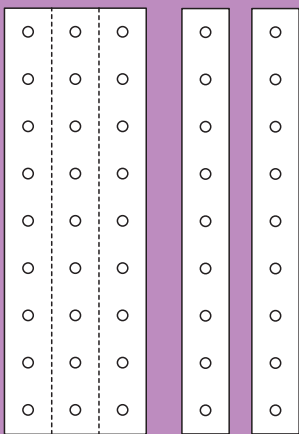
Fold the 25mm
beam to shape.



5 Check the assembly.



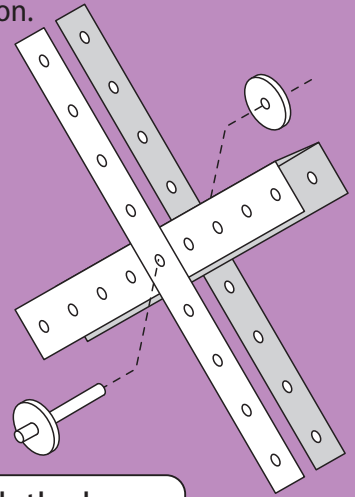
6 Make the second section.



Cut 25mm from a beam and cut two 225mm strips.

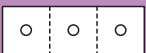
7 Assemble the section.

Fit 25mm disc to a 50mm axle.



Pass the axle through the beam and strips and fit a 25mm disc.

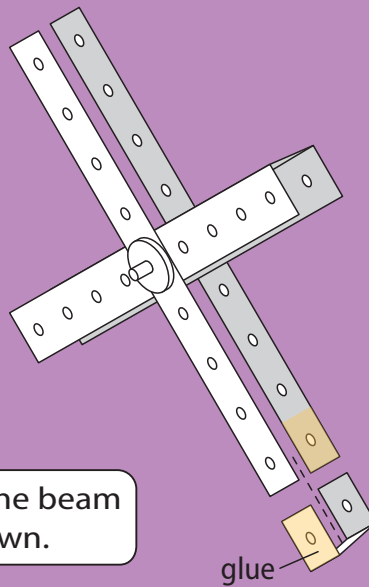
8 Fit the bracket.



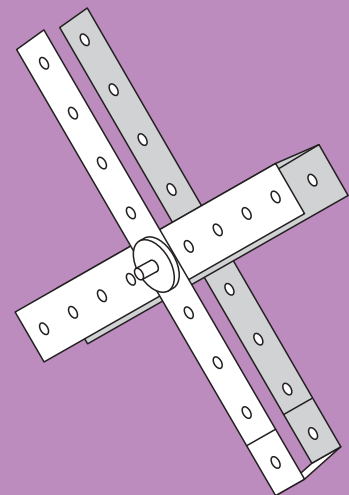
Fold the 25mm beam to shape.



Glue the beam as shown.

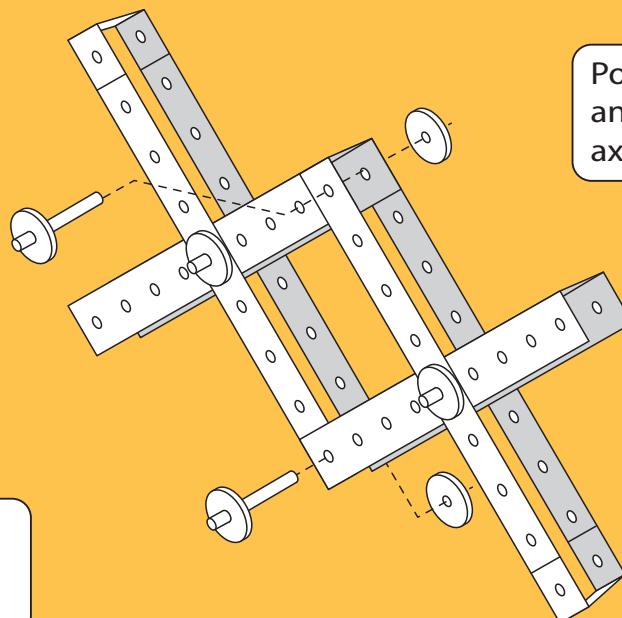


9 Check the assembly.



10 Assemble the two sections.

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



Position the two sections and join them with the axles where shown.

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

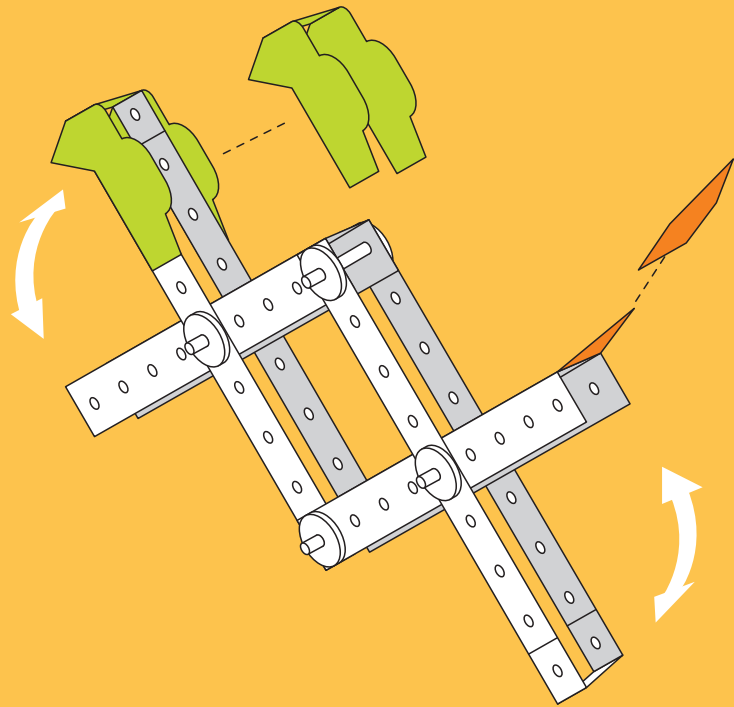
Test the mechanism and adjust the discs if they are too tight.

11 Operate your Snapping Snake!

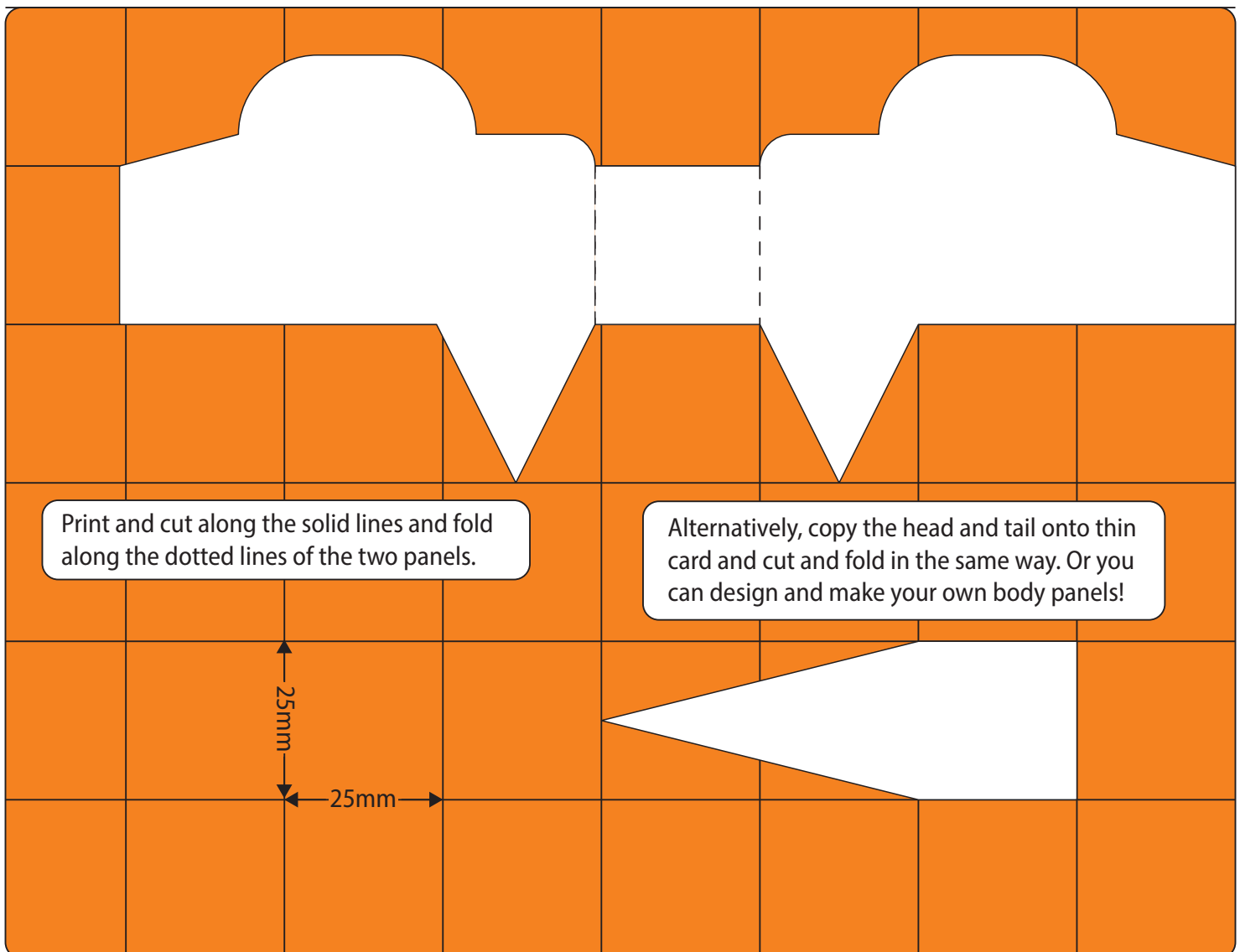
Cut, fold and glue the tail and head to your snake.

Pull the ends of the tail together and the snake will extend and snap its jaws shut!

The snake is made of a series of 'levers' which transfer the force from the tail to the head.



Card Panels



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

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

25mm

25mm