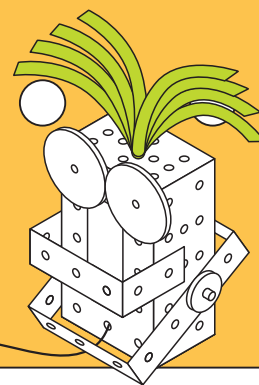




Visit TechCard at [techcard.co.uk](http://techcard.co.uk) & Instagram & YouTube

# Talking Skull

Make and Create: Skill Level ● ● ● ○ ○



Build a spooky talking skull and see what it has to say!

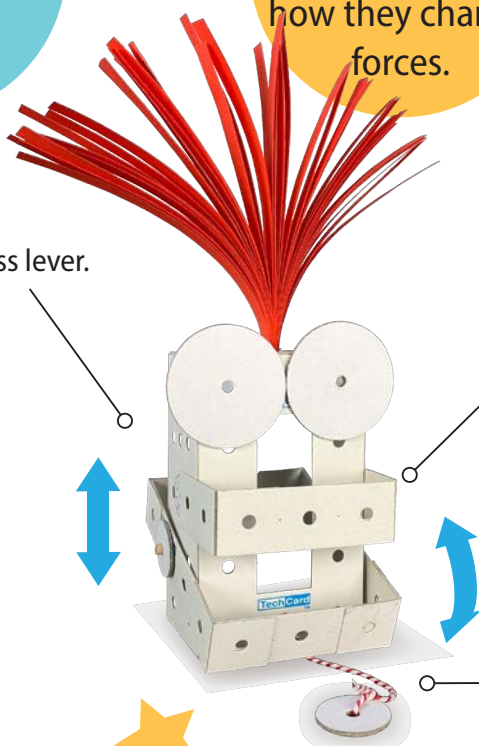
Explore levers and cables and see how they change forces.

See how to make with TechCard on our website.

The jaw is a first class lever.

Pulling the disc opens that jaw.

The force is transferred by the string.



Assembly videos on YouTube!

## Parts to make 1 model

### Structural Parts

|                       |   |
|-----------------------|---|
| TechCard Strip        | 1 |
| TechCard Girder       | 1 |
| TechCard Project Base | 1 |

### Mechanical Parts

|                  |   |
|------------------|---|
| 25mm Disc        | 3 |
| 50mm Wheel       | 2 |
| 100mm Dowel Axle | 1 |

### Additional Materials

300mm String  
A5 Size Thin Card

You will have parts left over towards other models.

## Parts to make 10 models

### Structural Parts

|                       |    |
|-----------------------|----|
| TechCard Strip        | 10 |
| TechCard Girder       | 5  |
| TechCard Project Base | 10 |

### Mechanical Parts

|                  |    |
|------------------|----|
| 25mm Disc        | 30 |
| 50mm Wheel       | 20 |
| 300mm Dowel Axle | 4  |

### Additional Materials

3M String  
A5 Size Thin Card x 10

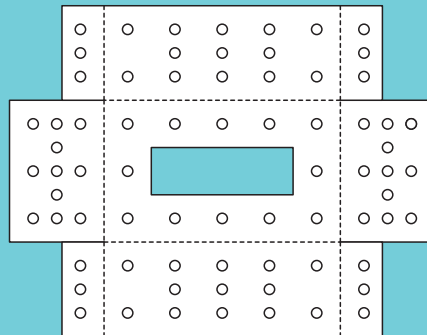
Based on pupils sharing off-cuts between them.

# Make the Talking Skull

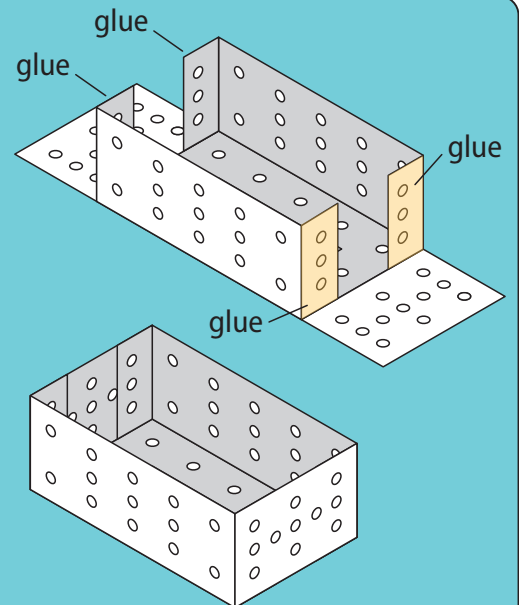


Before you start see  
'Make with TechCard'  
on our website.

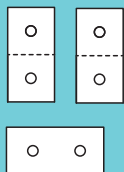
## 1 Make the head.



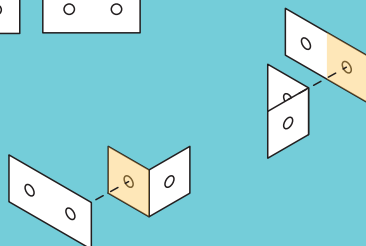
Fold and glue the TechCard  
Project Base.



## 2 Make the upper jaw.



Cut two 25mm girders  
and two 50mm strips.

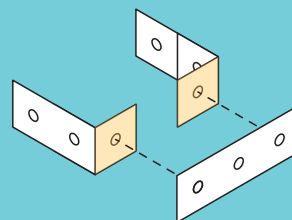


Fold the girders and glue  
the strips as shown.

## 3 Assemble the upper jaw.

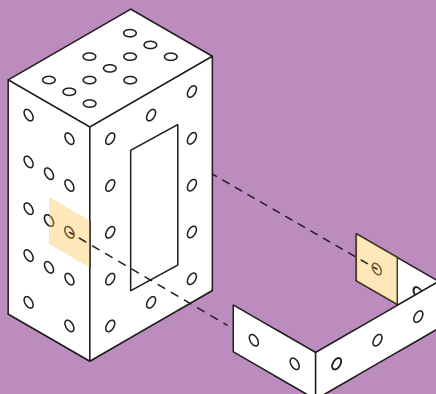


Cut a 75mm strip



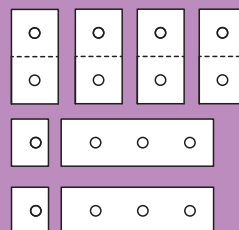
Glue the strip to the  
girders as shown.

## 4 Fit the upper jaw.



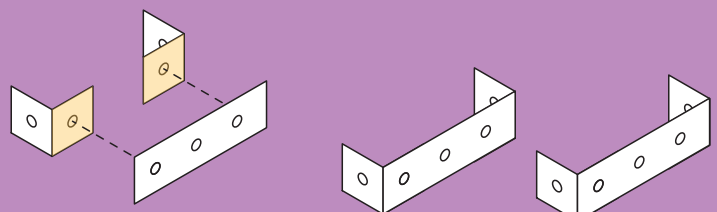
Glue jaw where shown.

## 5 Make the lower jaw.

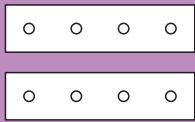


Cut four 25mm girders  
and two 80mm strips.

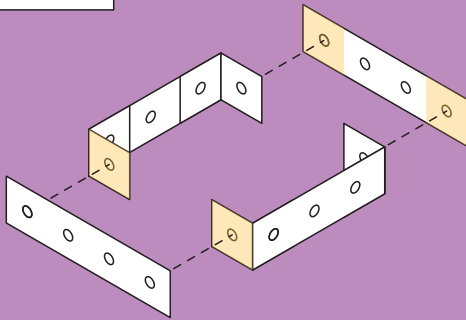
Fold the girders and glue to the  
strips to form two parts as shown.



**6** Assemble the lower jaw.

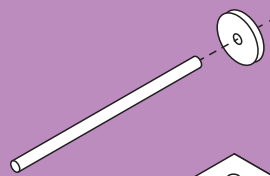


Cut two 100mm strips.

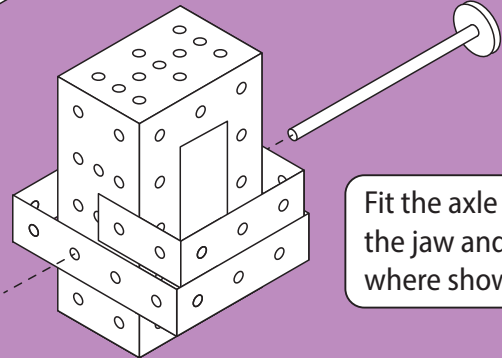


Glue the parts together as shown.

**7** Fit the lower jaw.



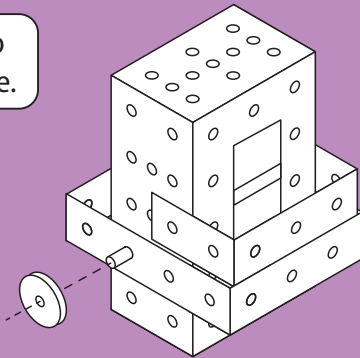
Fit a 25mm disc onto the end of a 100mm axle.



Fit the axle through the jaw and base where shown.

**8** Complete the lower jaw.

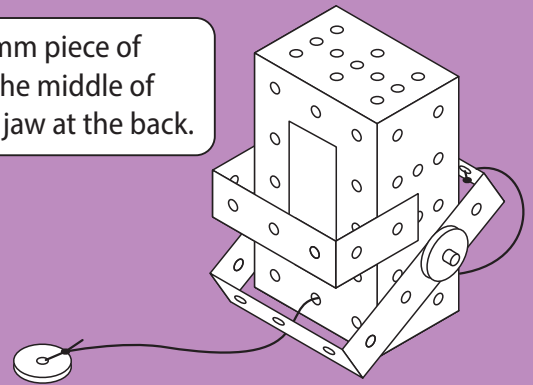
Fit a 25mm disc to the end of the axle.



Check the jaw moves up and down easily.

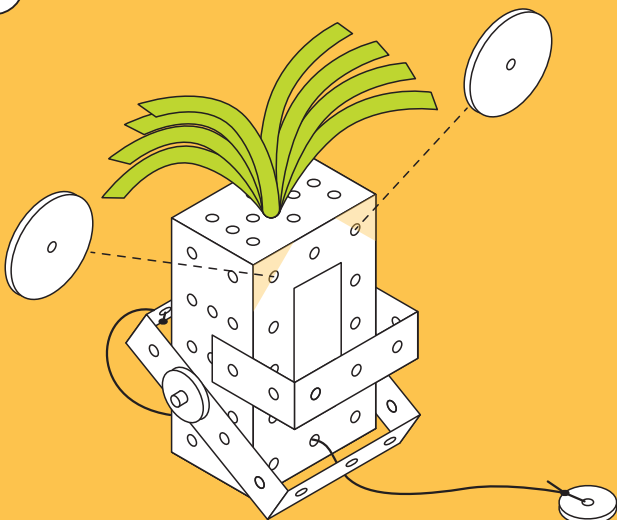
**9** Attach the string.

Tie a 300mm piece of string to the middle of the lower jaw at the back.



Pass the string through the middle hole of the base under the jaw and tie it to a 25mm disc.

**10** Fit the eyes.



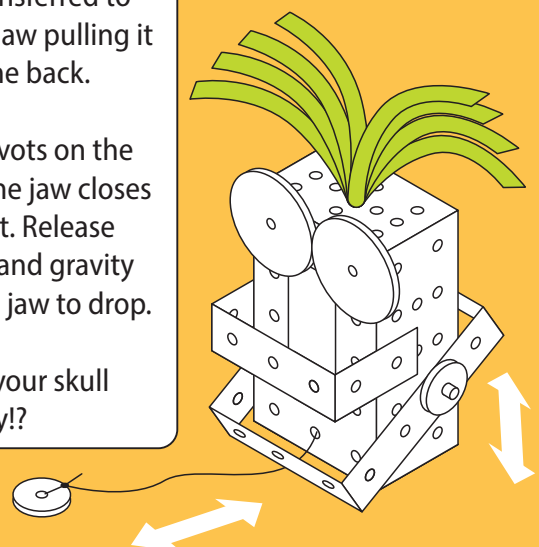
Fit the hair and glue two 50mm wheels to form the eyes.

**11** Operate your Talking Skull!

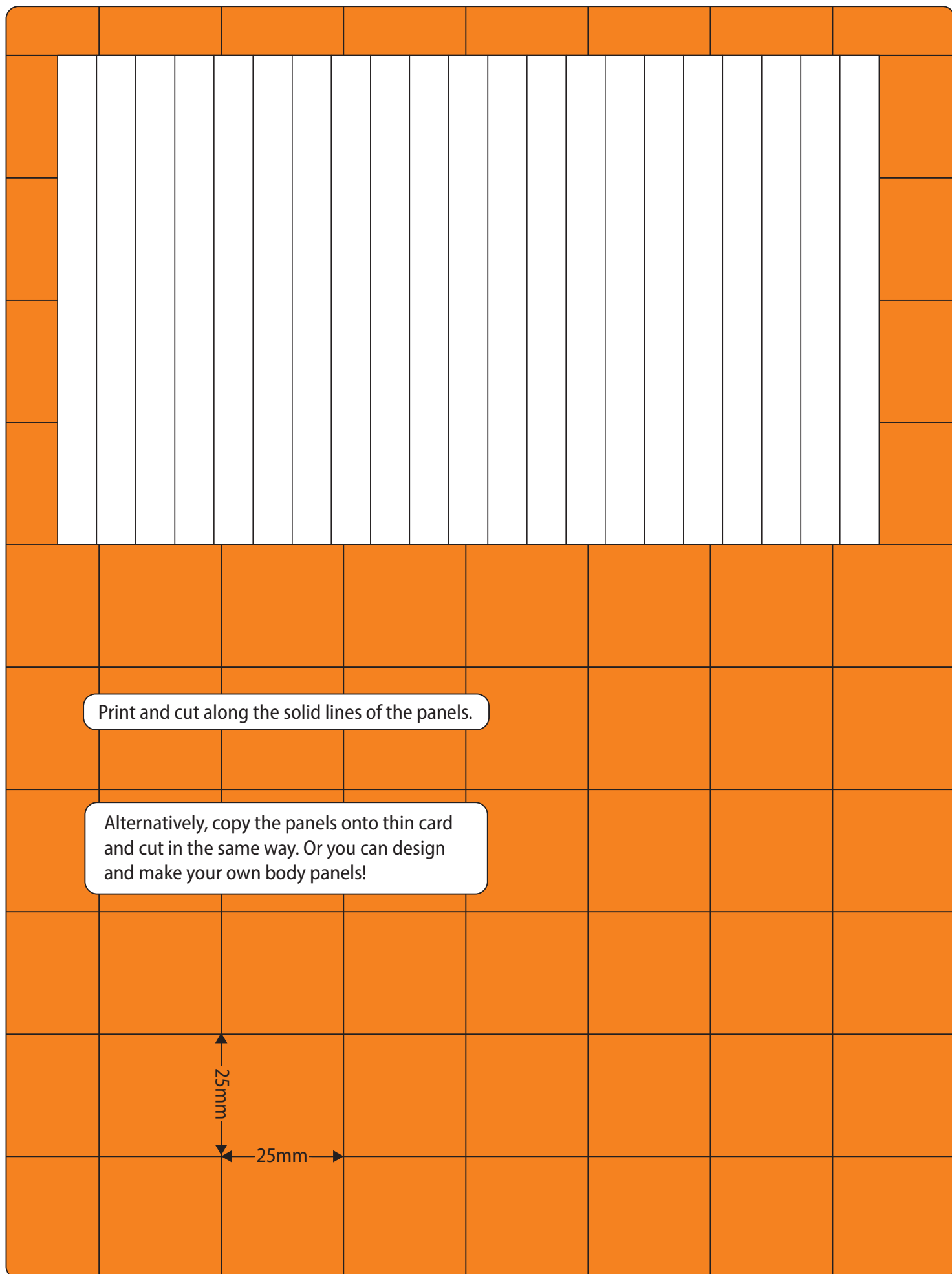
Pull the string and the force is transferred to the lower jaw pulling it down at the back.

The jaw pivots on the axle and the jaw closes at the front. Release the string and gravity causes the jaw to drop.

What has your skull have to say!?



# Card Panels



Print and cut along the solid lines of the panels.

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

25mm

25mm