IIN KER GAD Bookmark with 2 colors Project





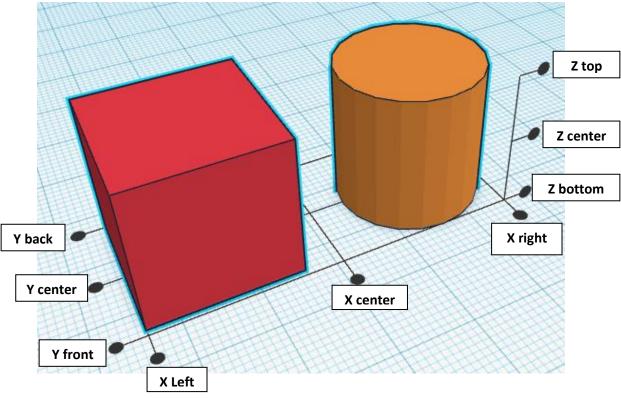


Reference to Aligning, Flip direction, Move direction, and Rotate direction.

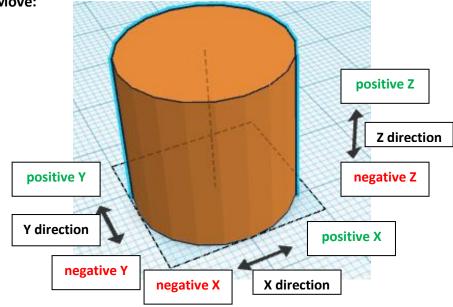


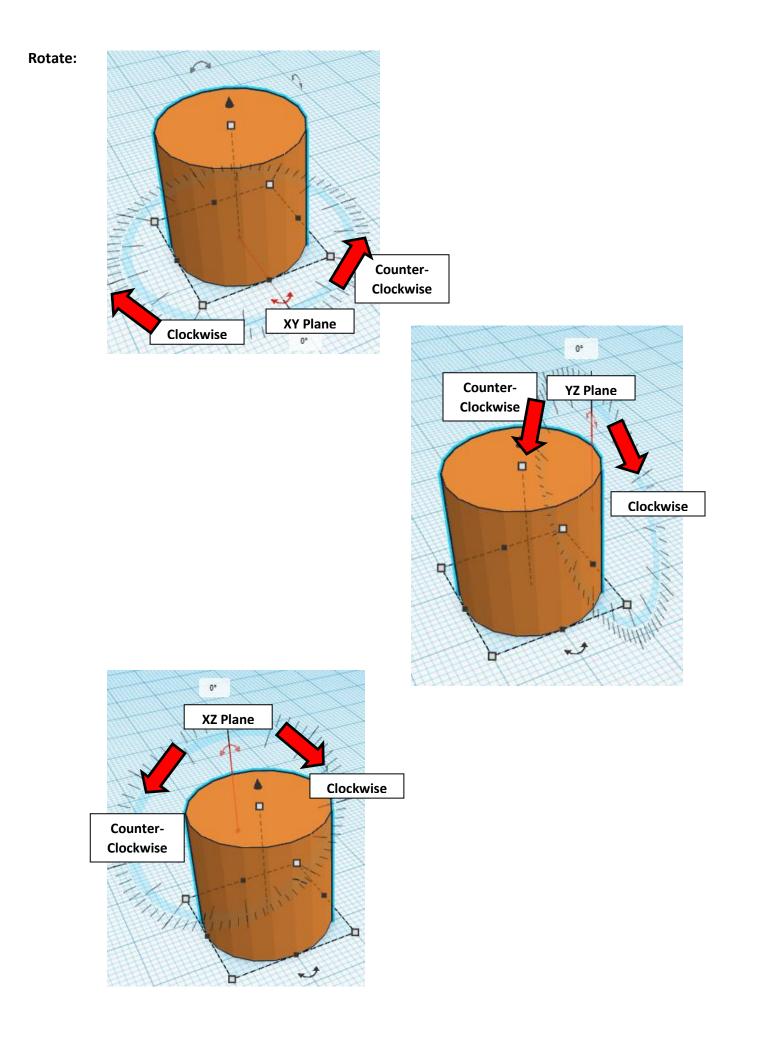


Aligning:



Flip or Mirror and Move:



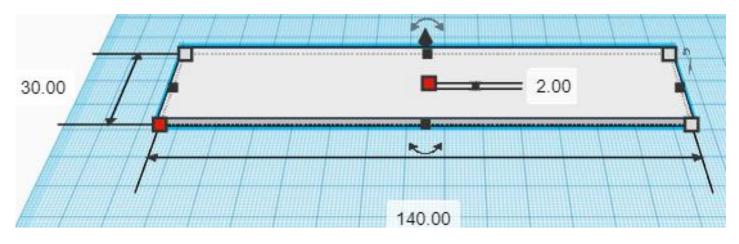


Bookmark with 2 colors:

Base:

Bring in a Box, located in Basic Shapes on the left 2 shapes down. From now on this will be called the **Base**.

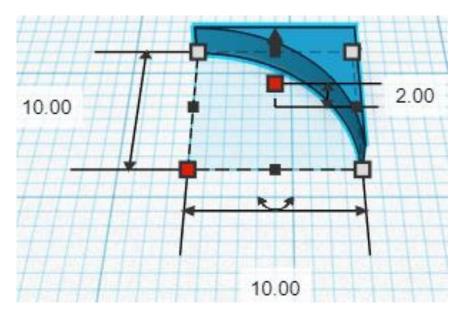
Change the dimensions to 140mm X direction, 30mm Y direction, and 2mm Z direction.



Bring in a MetaFillet, located in All, (things in All move each time that TinkerCad adds items to All), this was last seen on page 11, on the bottom left.

From now on this will be called the Corner Cutout

Change the dimensions to 10mm X direction, 10mm Y direction, and 2mm Z direction.

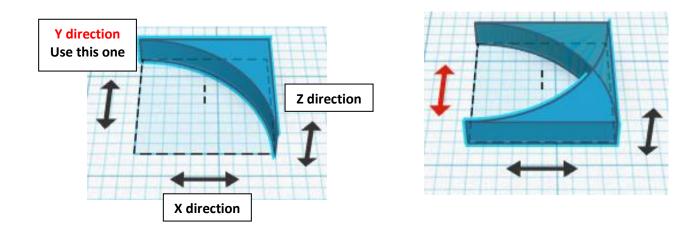


Duplicate Corner Cutout 1 time

Flip Corner Cutout in Y direction.

Before

After



From now on this new flipped part will be called the Bottom Cutout

Move <u>Bottom Cutout</u> (Must be in home view for this to work!) move forward in negative Y direction 20mm

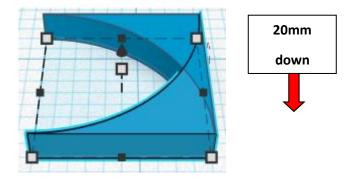
Hint: Select Bottom Cutout and push down arrow key 20 times.

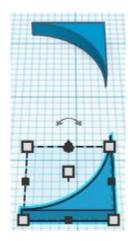
or

Select Bottom Cutout and hold down shift and push down arrow key 2 times.

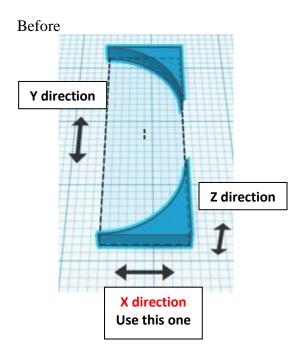
Before

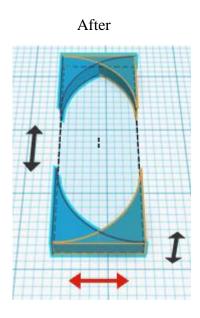






Group Corner Cutout and Bottom Cutout From now on this will be called the **Right Cutouts** Flip Right Cutouts in X direction.





From now on this new flipped part will be called the Left Cutouts

Move <u>Left Cutouts</u> (Must be in home view for this to work!) move left in negative X direction 130mm

Hint: Select Left Cutouts and push left arrow key 130 times.

or

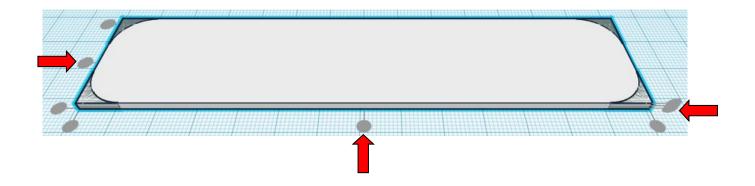
Select Left Cutouts and hold down shift and push left arrow key 13 times.

Before After

Group <u>Right Cutouts</u> and <u>Left Cutouts</u> From now on this will be called the **Cutouts** Change <u>Cutouts</u> to Hole by selecting <u>Cutouts</u> and typing "h".

Align Base and Cutouts

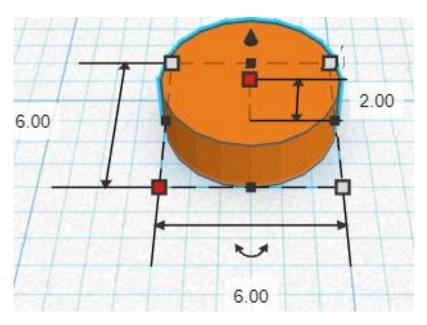
centered in X direction, centered of Y direction, and bottom of Z direction.



Group <u>Base</u> and <u>Cutouts</u> From now on this will be called the **Base**

Bring in a Cylinder, located in Basic Shapes on the right 2 shapes down. From now on this will be called the **Hole Cutout**.

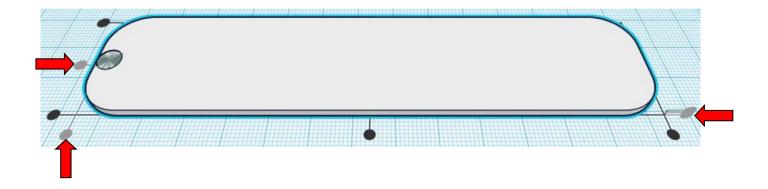
Change the dimensions to 6mm X direction, 6mm Y direction, and 2mm Z direction.



Change <u>Hole Cutout</u> to Hole by selecting <u>Hole Cutout</u> and typing "h".

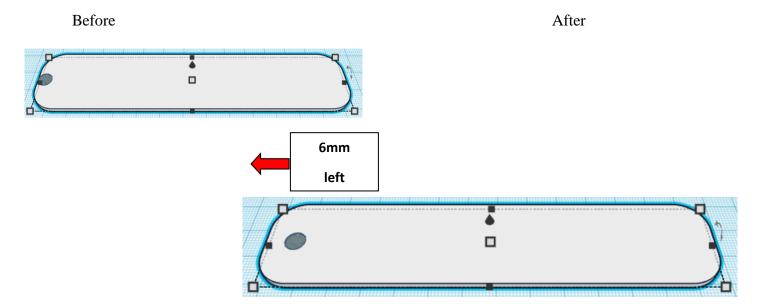
Align Base and Hole Cutout

left in X direction, centered of Y direction, and bottom of Z direction.



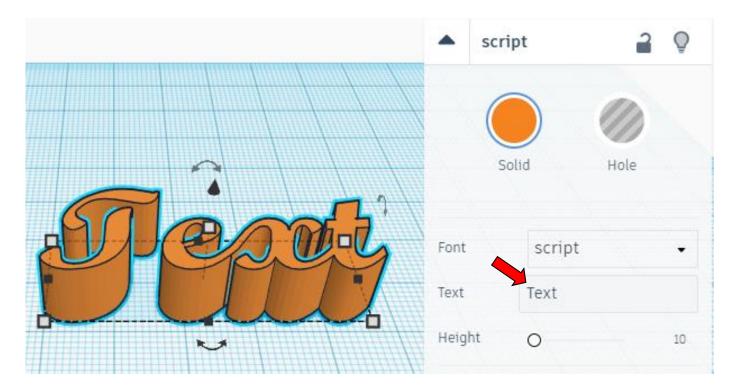
Move <u>Base</u> (Must be in home view for this to work!) move left in negative X direction 6mm

Hint: Select <u>Base</u> and push left arrow key 6 times.

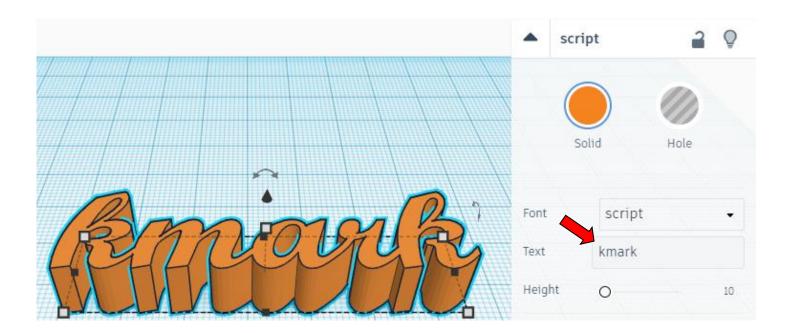


Group <u>Base</u> and <u>Hole Cutout</u> From now on this will be called the **Base**

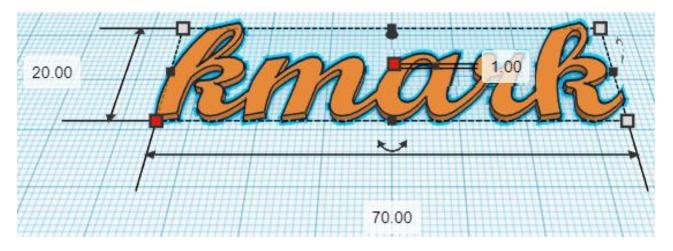
Bring in a Script, located in All, (things in All move each time that TinkerCad adds items to All), this was last seen on page 2, on the right 2nd from top. From now on this will be called the **kmark**



In the Text area change the **text** to **kmark**



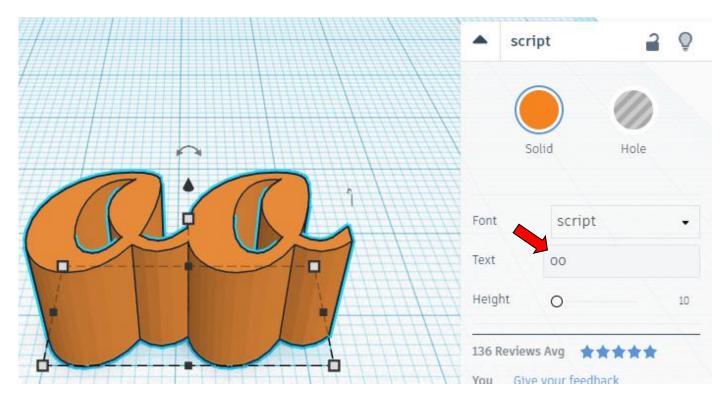
Change the dimensions to 70mm X direction, 20mm Y direction, and 1mm Z direction.



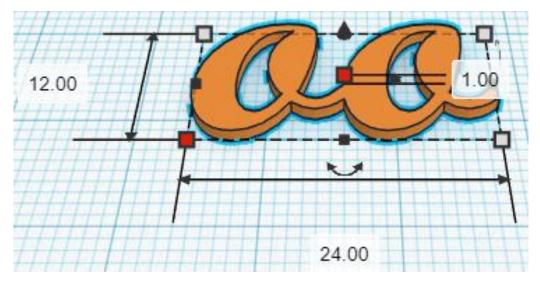
Bring in a Script, located in All, (things in All move each time that TinkerCad adds items to All), this was last seen on page 2, on the right 2nd from top. From now on this will be called the **oo**

	•	script	2	Q
		Solid	Hole	
Dest.	Font	script		•
	Text	Text		
	Heigh	nt O		10

In the Text area change the **text** to **oo**



Change the dimensions to 24mm X direction, 12mm Y direction, and 1mm Z direction.



Align kmark and oo

left in X direction, back of Y direction, and bottom of Z direction.



Move <u>oo</u> (Must be in home view for this to work!) move left in negative X direction 23mm and

move forward in negative Y direction 3mm

Hint: Select <u>oo</u> and push left arrow key 23 times.

Or

Select <u>oo</u> and hold down shift and push left arrow key 2 times. Then release the shift button and push left arrow key 3 times. And

Then Select <u>oo</u> and push down arrow key 3 times.

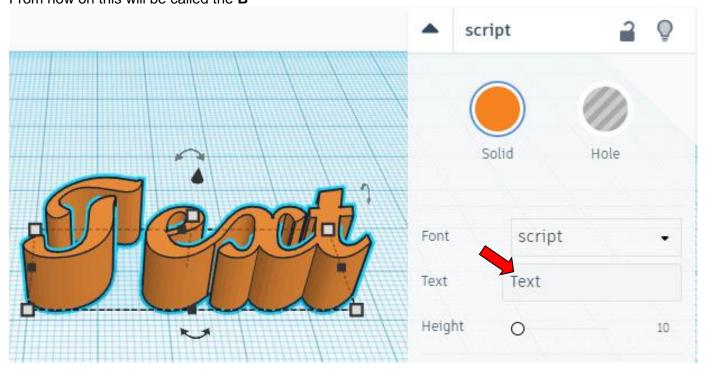
Before

After

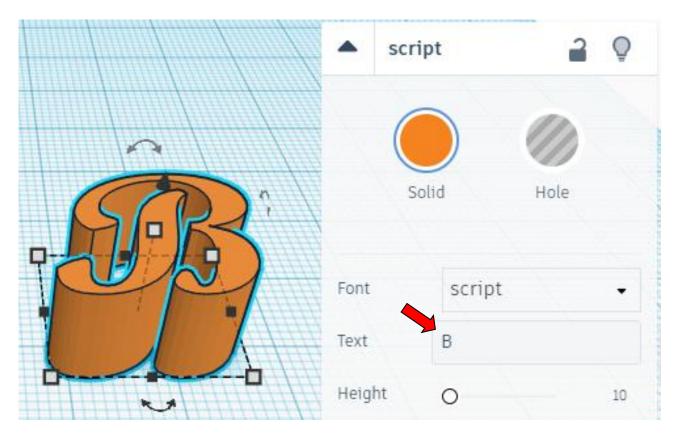




Group <u>kmark</u> and <u>oo</u> From now on this will be called the **ookmark** Bring in a Script, located in All, (things in All move each time that TinkerCad adds items to All), this was last seen on page 2, on the right 2nd from top. From now on this will be called the **B**



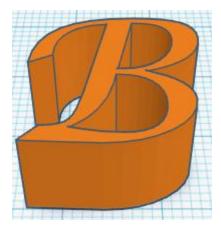
In the Text area change the **text** to **B**



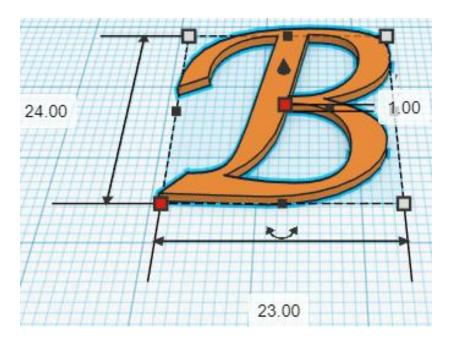
script Q 2 Solid Hole n Font script script Text Bebas Height 2 Majorsnafu Techniqu 136 Reviews A LucidaCalligraphy-You Give ye Italic

In the Font area change the **script** to

That looks better!



Change the dimensions to 23mm X direction, 24mm Y direction, and 1mm Z direction.



Align ookmark and B

left in X direction, centered of Y direction, and bottom of Z direction.



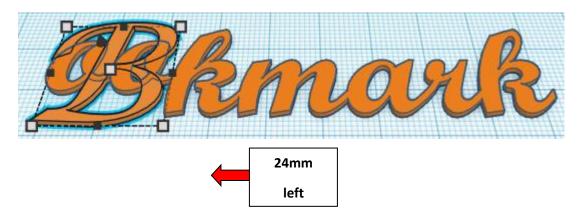
Move <u>B</u> (Must be in home view for this to work!) move left in negative X direction 24mm

Hint: Select \underline{B} and push left arrow key 24 times.

Or

Select \underline{B} and hold down shift and push left arrow key 2 times. Then release the shift button and push left arrow key 4 times.

Before



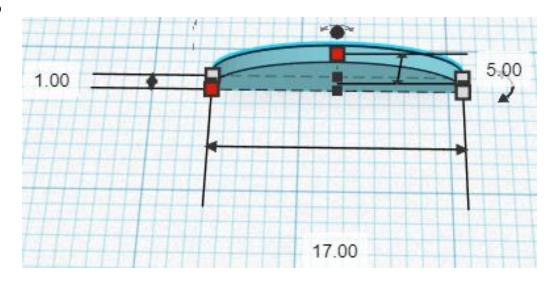
After



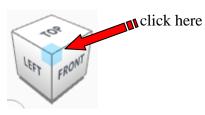
Group $\underline{ookmark}$ and \underline{B} From now on this will be called the Bookmark

Bring in a Round Roof, located in Basic Shapes on the left 5 shapes down. From now on this will be called the **Smile**.

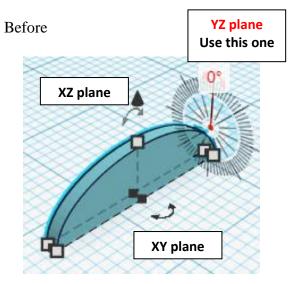
Change the dimensions to 17mm X direction, 1mm Y direction, and 5mm Z direction.

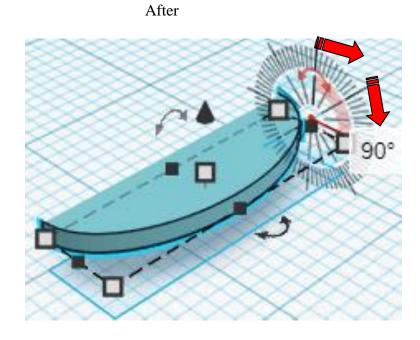


Go to TOP LEFT FRONT view for rotations



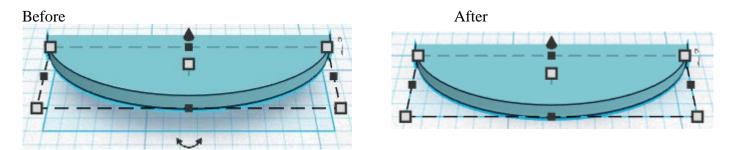
Rotate the Smile clockwise 90 degrees in YZ plane.





Set on Workplane:

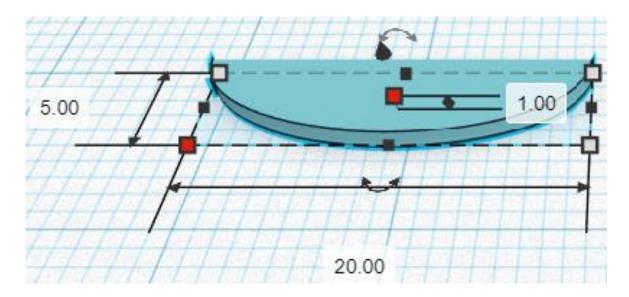
Select the <u>Smile</u> and type "d" to set the body on the work plane.



Duplicate <u>Smile</u> 1 time From now on this will be called the **Smile cutout**

Move Smile Cutout to the side and

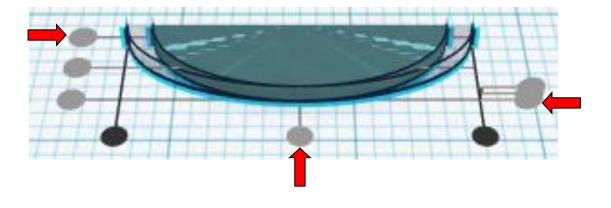
Change the dimensions to 20mm X direction, 5mm Y direction, and 1mm Z direction.



Change Smile Cutout to Hole by selecting Smile Cutout and typing "h".

Align Smile and Smile Cutout

centered in X direction, back of Y direction, and bottom of Z direction.

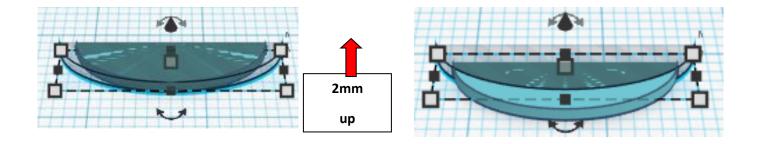


Move <u>Smile Cutout</u> (Must be in home view for this to work!) move back in positive Y direction 2mm

Hint: Select Smile Cutout and push up arrow key 2 times.

Before

After

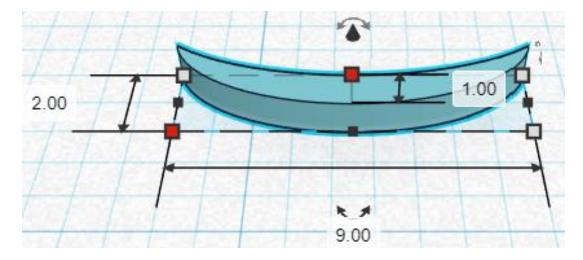


Group <u>Smile</u> and <u>Smile Cutout</u> From now on this will be called the **Smile**

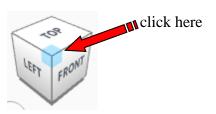
Duplicate <u>Smile</u> 1 time From now on this will be called the **Left Eyebrow**

Move Left Eyebrow to the side and

Change the dimensions to 9mm X direction, 2mm Y direction, and 1mm Z direction.



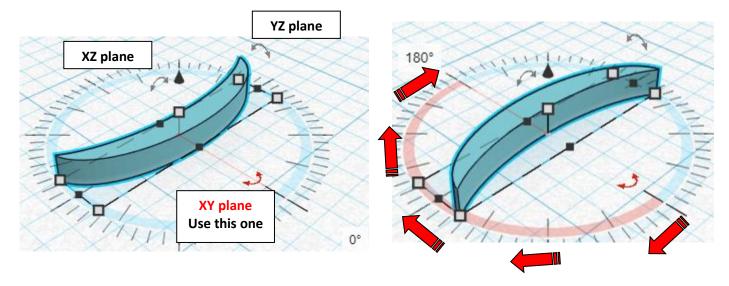
Go to TOP LEFT FRONT view for rotations



Rotate the Left Eyebrow clockwise 180 degrees in XY plane.

Before

After



Move <u>Right Eyebrow</u> (Must be in home view for this to work!) move right in positive X direction 13mm

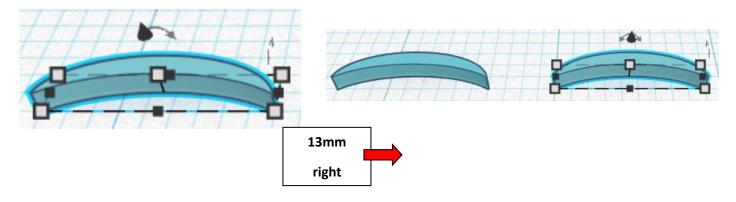
Hint: Select <u>Right Eyebrow</u> and push right arrow key 13 times.

Or

Select <u>Right Eyebrow</u> and hold down shift and push right arrow key 1 time. Then release the shift button and push right arrow key 3 times.

Before

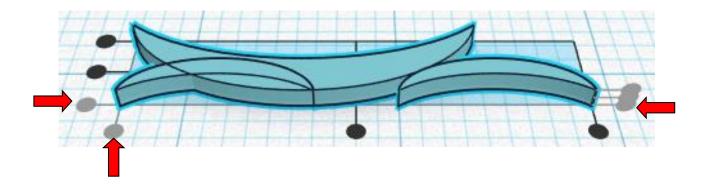
After



Group <u>Right Eyebrow</u> and <u>Left Eyebrow</u> From now on this will be called the **Eyebrows**

Align Smile and Eyebrows

left in X direction, front of Y direction, and bottom of Z direction.

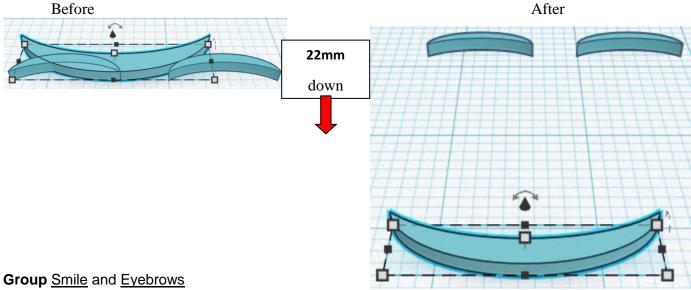


Move <u>Smile</u> (Must be in home view for this to work!) move forward in negative Y direction 22mm

Hint: Select <u>Smile</u> and push down arrow key 22 times.

Or

Select <u>Smile</u> and hold down shift and push down arrow key 2 times. Then release the shift button and push down arrow key 2 times.



From now on this will be called the Face

Align Face and Bookmark

left in X direction, centered of Y direction, and bottom of Z direction.



Move <u>Face</u> (Must be in home view for this to work!) move right in positive X direction 27mm

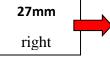
Hint: Select Smile and push right arrow key 27 times.

Or

Select <u>Smile</u> and hold down shift and push right arrow key 2 times. Then release the shift button and push right arrow key 7 times.

Before





After



Group Bookmark and Face From now on this will be called the **Bookmark**

Duplicate Bookmark 1 time From now on this will be called the **Bookmark cutout**

Change Bookmark Cutout to Hole by selecting Bookmark Cutout and typing "h".

Align Base and Bookmark Cutout

centered in X direction, centered of Y direction, and top of Z direction.



Move <u>Base</u> (Must be in home view for this to work!) move left in negative Y direction 3mm

Hint: Select <u>Base</u> and push left arrow key 3 times.

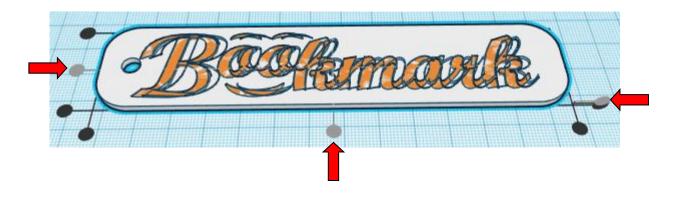
Before

B	ÖCRM	ank
	3mm left	
After	C-Bé	jokmarik j

Group Base and Bookmark Cutout From now on this will be called the **Base**

Align Base and Bookmark

centered in X direction, centered of Y direction, and top of Z direction.



Move <u>Base</u> (Must be in home view for this to work!) move left in negative Y direction 3mm

Hint: Select <u>Base</u> and push left arrow key 3 times.

Before

DO NOT GROUP!

The two solids must be separate for printing.

Change the colors of each solid to see how it will look after printing.

Here are some possible styles!



Add some thin ribbon and tie to the Hole Cutout to add some décor.

Have fun and enjoy!