Hungarian National Assembly printing project.

The National Assembly is one of the most emblematic buildings and also one of the most attractive and famous for tourists.

It was designed by Imre Steindl and it was built between 1885 and 1904. It is located on the banks of the second longest river in Europe, the Danube. Unfortunately, the architect went blind and he was unable to see his work completed.

Forty million bricks, half a million precious stones and 40 kg of gold were used to build this building. In addition, we can see the most precious treasure of his country inside, the crown jewels, which were stolen several times.

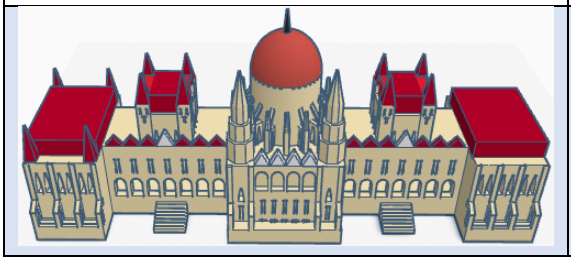
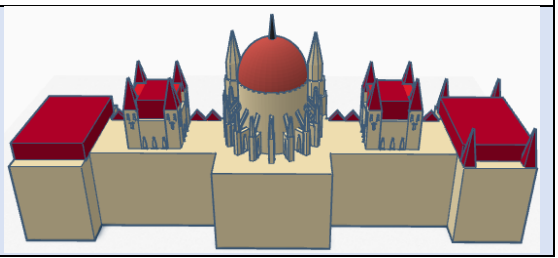
In this activity, we are going to model this construction to scale.

- It is 268 metres wide, 123 metres long and 96 metres high.
- The dome and two identical structures on each side are on the top.

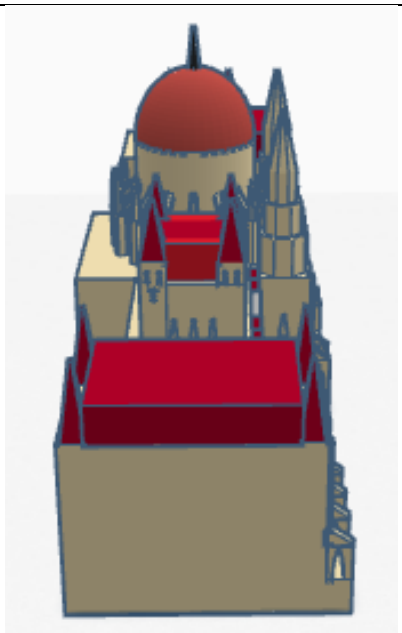
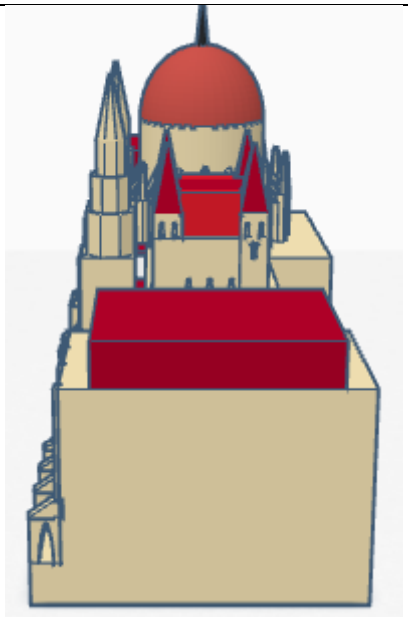
Objectives

- Master the use and modifications of basic shapes.
- Replicate this monument in Tinkercad.
- Empty some parts with other empty structures.

Reference model designed with Tinkercad.

Front View	Rear View
	

Lateral view

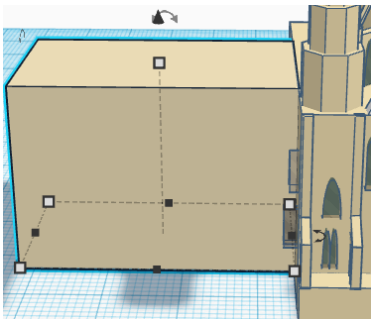
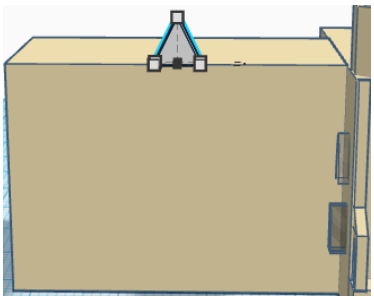
	

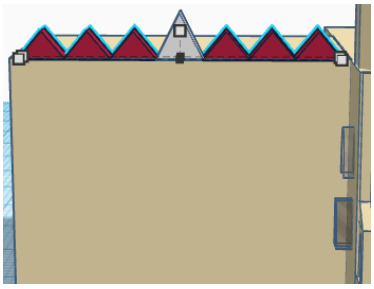
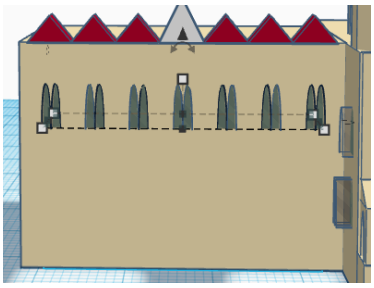
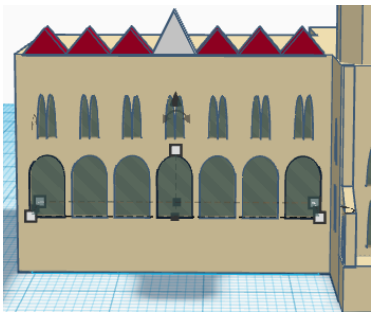
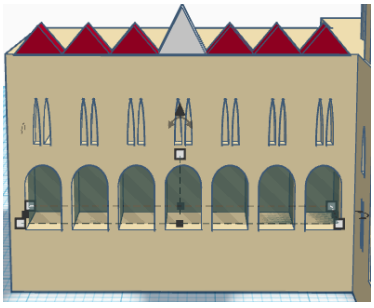
Model features

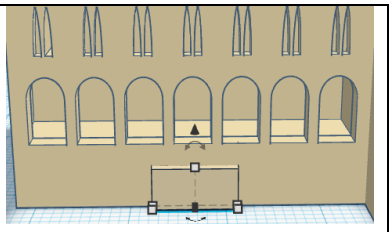
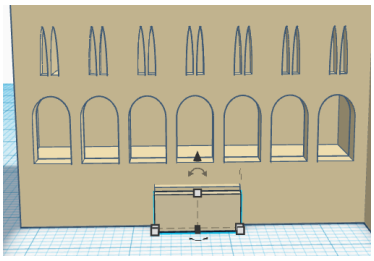
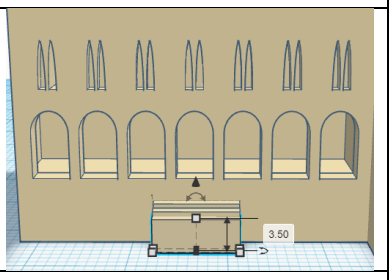
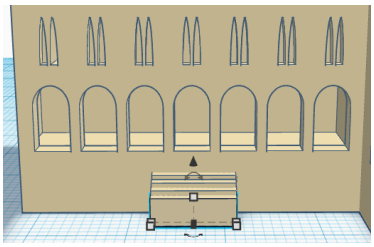
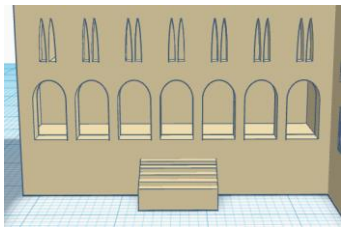
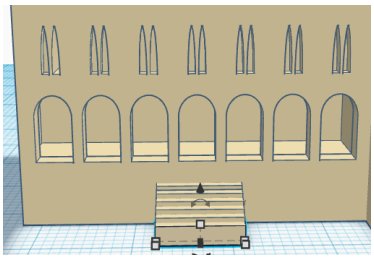
To replicate this model, we are going to divide the construction in 2 different parts, but here is the second one:

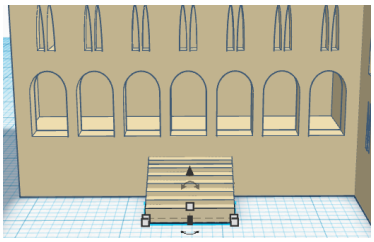
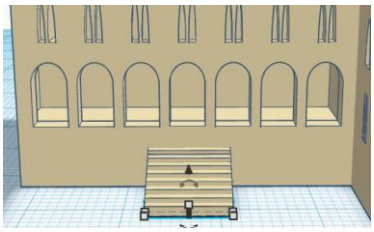
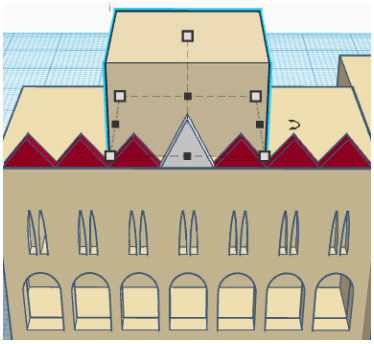
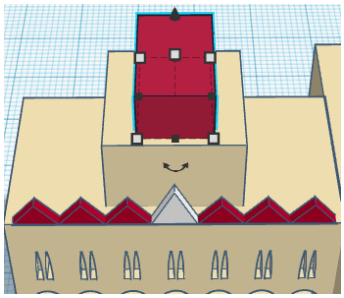
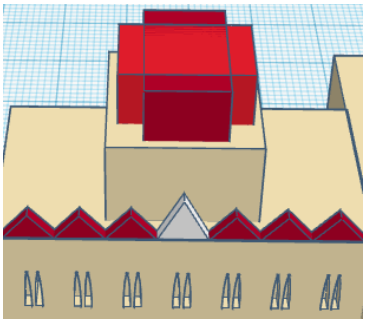
- Lateral parts.

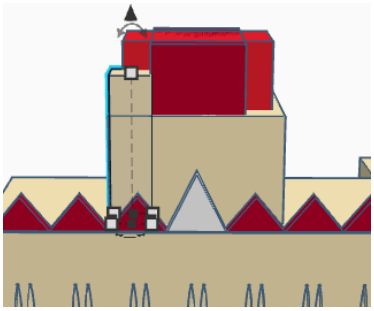
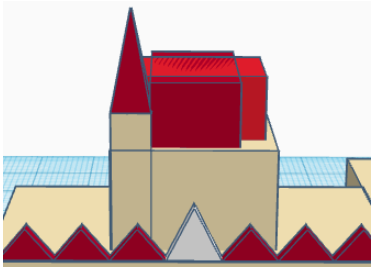
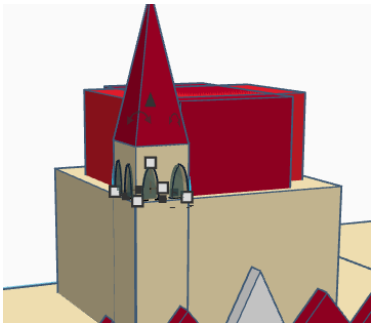
LATERAL PART.

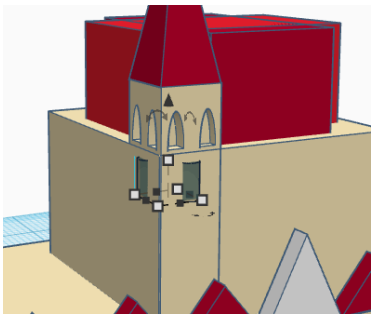
Box	37mm Wide x 20mm Long x 26mm High.	
Roof	5mm Wide x 1mm Long x 5mm High.	

6 x Roof	5mm Wide x 1mm Long x 3mm High.	
14 x Empty round roof	1mm Wide x 2mm Long x 5mm High.	
Empty box + Empty round roof	4mm Wide x 6.50mm Long x 7.25mm High.	
Empty box	35mm Wide x 6mm Long x 7mm High.	
Box	9mm Wide x 1mm Long x 4.50mm High.	

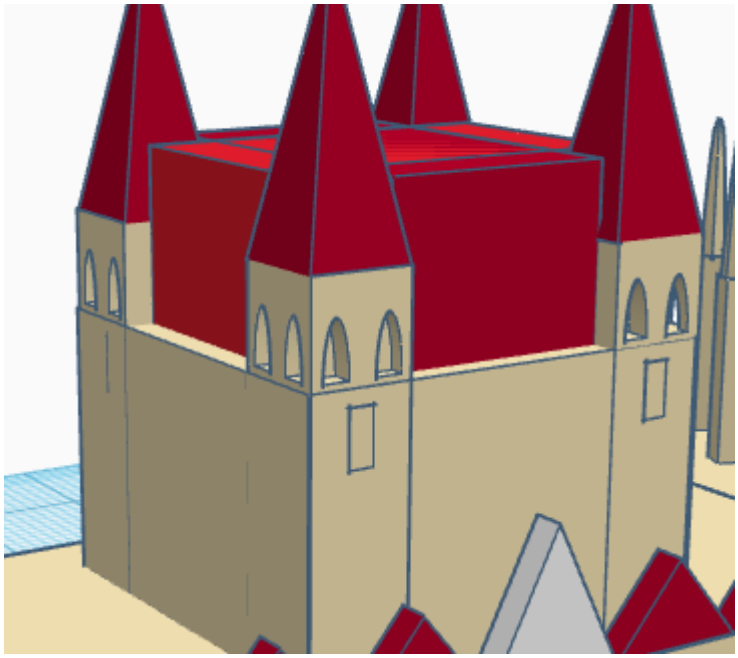
		
Box	9mm Wide x 1mm Long x 4mm High.	
Box	9mm Wide x 1mm Long x 3.50mm High.	
Box	9mm Wide x 1mm Long x 3mm High.	
Box	9mm Wide x 1mm Long x 2.50mm High.	
Box	9mm Wide x 1mm Long x 2mm High.	

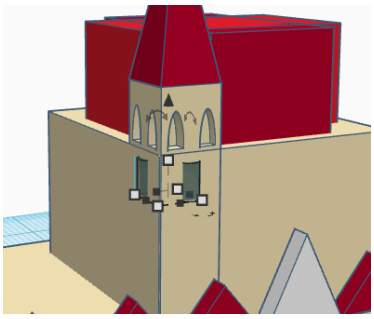
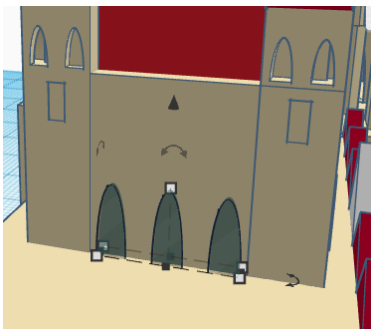
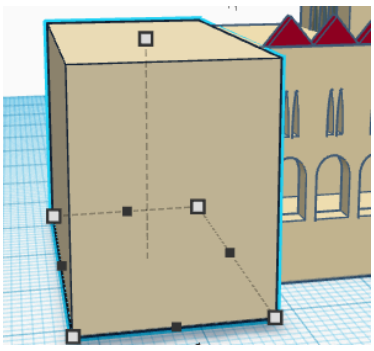
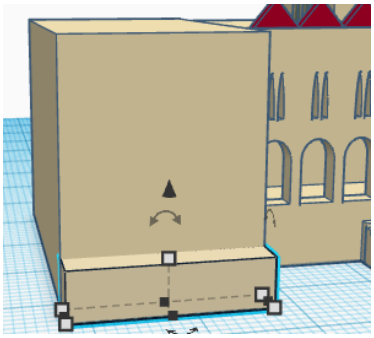
Box	9mm Wide x 1mm Long x 1.50mm High.	
Box	9mm Wide x 1mm Long x 1mm High.	
Box	15mm Wide x 15mm Long x 9.50mm High.	
Box	8mm Wide x 13mm Long x 6mm High.	
Box	13mm Wide x 8mm Long x 6mm High.	

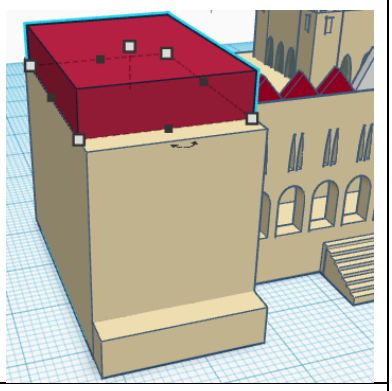
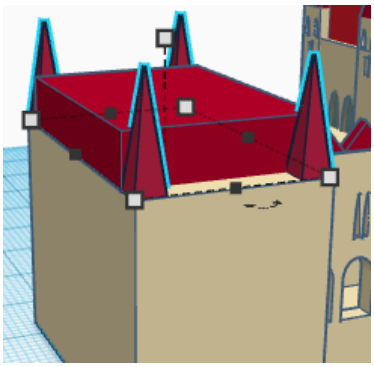
Box	3.50mm Wide x 3.50mm Long x 13mm High.	
Pyramid	3.50mm Wide x 3.50mm Long x 9mm High.	
4 x Empty round roof	1mm Wide x 1mm Long x 2mm High.	

2 x Cylinder	1mm Wide x 1mm Long x 2mm High.	

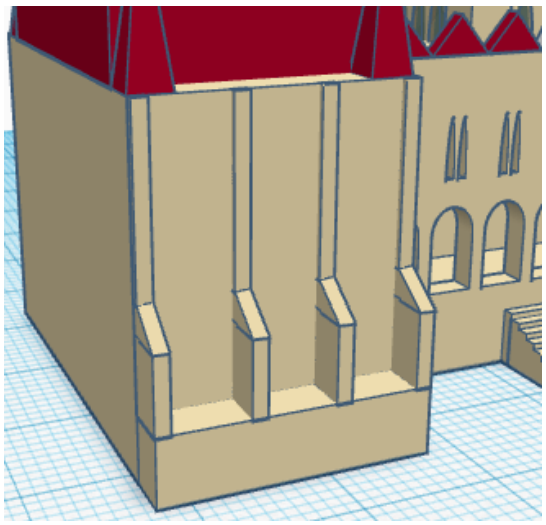
Now we group the tower and we duplicate 3 times, one for each corner, we rotate the structure in order to place it correctly.

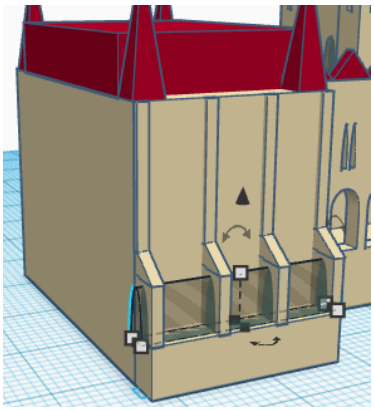
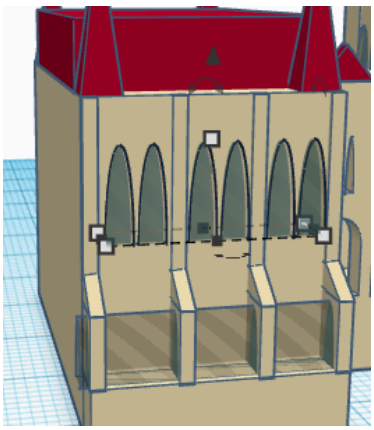


5 x Round roof	1mm Wide x 1mm Long x 2mm High.	
3 x Empty round roof	1.50mm Wide x 1mm Long x 4mm High.	
Box	20mm Wide x 35mm Long x 26mm High.	
Box	20mm Wide x 3.50mm Long x 5mm High.	

Box	20mm Wide x 28mm Long x 5.50mm High.	
4 x Pyramid	3.50mm Wide x 3.50mm Long x 11.40mm High.	

We duplicate the front facade structures and we use it on the left building.



Empty round roof.	2mm Wide x 21mm Long x 5mm High.	
6 x Empty round roof	2mm Wide x 4mm Long x 7.50mm High.	

We have finished our building, it has to look like this.