





A guide on how to make a scaled model of a GREEK BEEHIVE. LANGSTROTH type

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The Melissa Project

As part of **MELISSA**, an Erasmus+ funded project, this guide is intended to teach students how to make a scaled model of a Langstroth, the most common Greek type of, beehive.

The **LANGSTROTH BEEHIVE** (aka **Standard beehive**) was introduced in the mid-20th century in Greece and has been popular ever since, because in Greece beekeeping is nomadic, and this type of beehive is easy to transport.

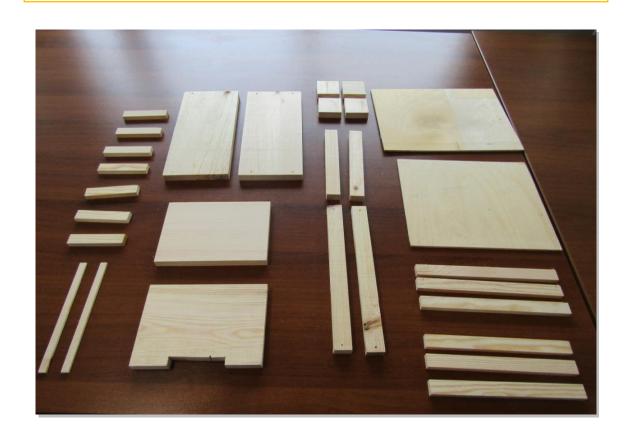
MATERIAL and **EQUIPMENT** used for the model making of one Greek beehive, Langstroth type

	FOR A GREEK BEEHIVE MODEL
	number of items & dimensions
FOR THE BOX	
2 pinewood pieces (long sides)	2 (25.5 x 12 x 1.5 cm)
2 pinewood pieces (short sides)	2 (17.5 x 12 x 1.5 cm)
4 pinewood pieces (feet)	4 (5 x 5 x 1.5 cm)
1 PLYWOOD base (floor)	1 (28.5 x 20.5 x 4 mm)
2 pinewood pieces (ledge for the frames to sit on)	2 (17 x 1 x 0.5 cm)
FOR THE TOP COVER	
2 pinewood pieces (long sides)	2 (25.5 x 2.6 x 1.5 cm)
2 pinewood pieces (short sides)	2 (17.5 x 2.6 x 1.5 cm)
1 PLYWOOD (roof)	1 (25.5 x 20.5 x 4 mm)
FOR THE 3 FRAMES	
6 pinewood pieces	6 (22.4 x 2 x 1 cm)
6 pinewood pieces	6 (20.5 x 2 x 1 cm)
12 pinewood pieces	12 (9 x 2 x 1 cm)
WOOD SCREWS	
12 wood screws big	12 (3.5 x 30)
12 wood screws small - for the 2 pieces of plywood	12 (3.5 x 16)
1 STAPLE GUN (heavy-duty)	1 STAPLE GUN (heavy-duty)
1 HAND-HELD POWER DRILL	1 HAND-HELD POWER DRILL
1 PENCIL	1 PENCIL
1 small HAND SAW to cut the RECTANGULAR entrance of the hive	1 small HAND SAW
Acrylic colours/ exterior house paint/ exterior polyurethane/ marine varnish - optional for the décor	

Here are the real-size Greek beehive and the model beehive



Here are all pieces for the Greek Beehive model assembly



FOR THE BOX:

1)

Cut the rectangular entrance to the hive – using the hand saw



2)

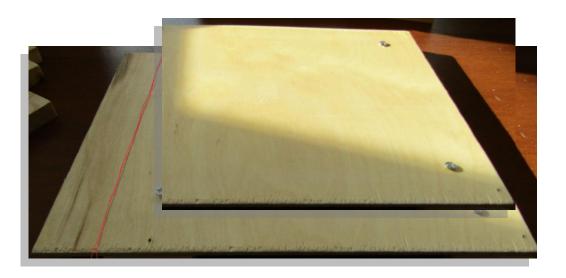
Staple the 2 ledges to the 2 short sides – using the staple gun

The ledges



Staple one of the two ledges opposite the entrance





4) Attach the 4 feet to the long plywood, until the marked line – using the drill

(one small screw for each foot / 4 small screws total)



Join the 4 sides to each other – using the drill

(one big screw on each of the 4 corners of the two long sides / 8 big screws total)

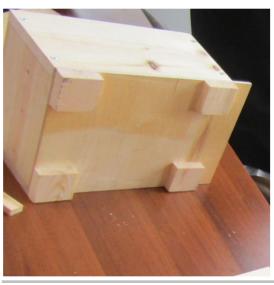


(one small screw on each inside corner / 4 small screws total)



The entrance slot should be facing the floor!





Attach the 4 feet to the long plywood, until the marked line – using drill

(one big screw on each corner / 4 big screws total)



Attach the roof to the rectangular made – using the drill

(one small screw on each of the 4 corners / 4 small screws total)

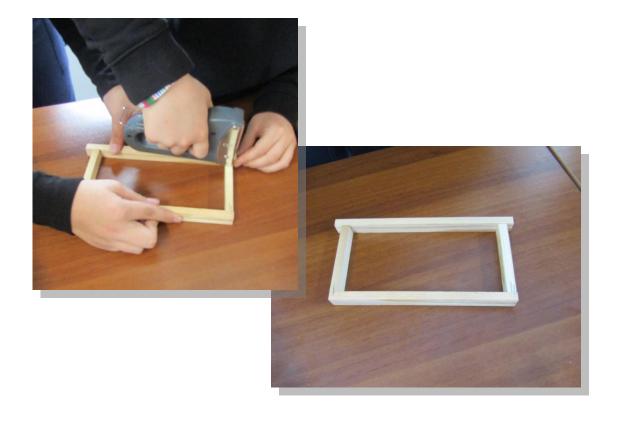


7)

8)

9)

Join the 4 pieces together – using the staple gun



Have the frames sit on the ledge inside the box, on the two short sides of the box

