



BUILD A RENAISSANCE DOME

Name of the object and creator	Constructing a Renaissance dome from Saint Jacobs Cathedral at Šibenik built by Nikola Firentinac/Juraj Dalmatinac at 15 th Century; Marija Barlek – Teacher of Visual Arts at Lovre pl.Matačića Primary school					
Recommen ded ages	10-11					
Thematic	Sciences	Technology	Engineering	Arts	Mathematics	
areas	Ø	Ø	Ø	Ø	Ø	
combined						
(STEAM)						
Materials needed	 1 piece of thick white paper (A3) 1 piece of white corrugated cardboard (A3) a stack of wooden skewer sticks hot glue gun with cartridges/white glue for wood 					
	pencil, eraser, ruler, triangle, divider a de la decider a deci					
	staplerscissors					
	 light Styrofoam base (14x14 cm) 					





Outline of the steps	Construct and build a Renaissance dome from Sibenik's Cathedral in pairs following steps using measurement tools.
	Glue and connect all the pieces together taking care of the rules of statistics and safety while using tools.
	3. Check the stability of the construction
References	https://upload.wikimedia.org/wikipedia/commons/transcoded/b/bf/Catedral Sibenik.ogv/Catedral Sibenik.ogv.480p.vp9.webm
	https://youtu.be/VyTd-coWngw

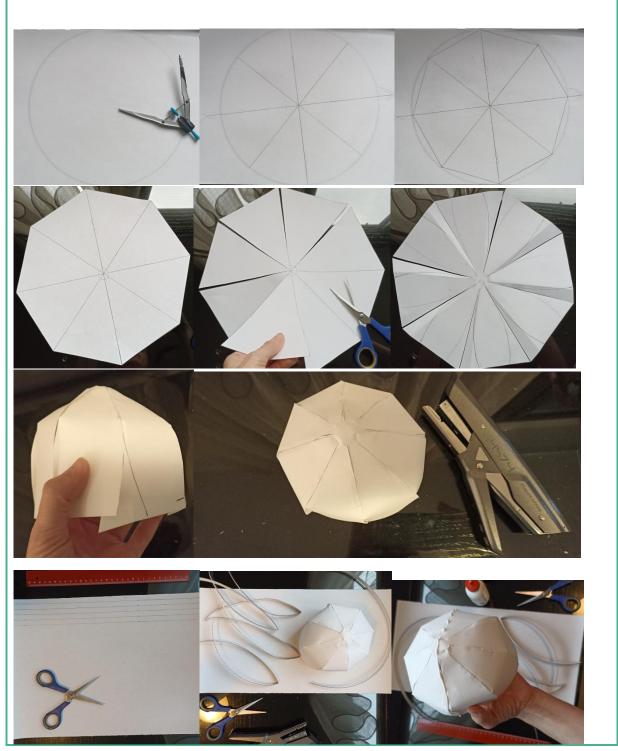




STEP BY STEP: How to build a RENAISSANCE DOME

Step 1: How to construct a Renaissance dome? Estimated time: 65 min

• Divide the students to work in pairs. Prepare all the parts using measurement tools and then assemble them. Follow this procedure by looking at the pictures:





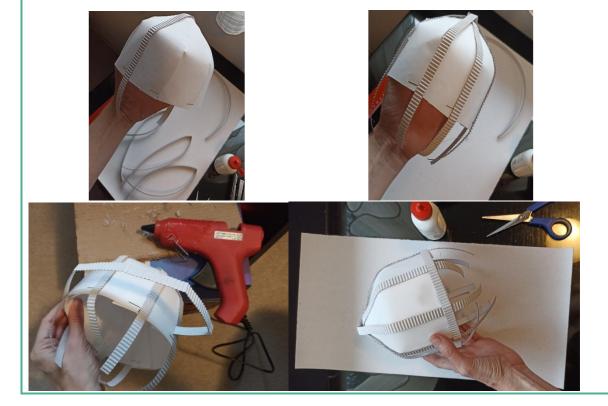


• Prepare 5 long strips of white corrugated cardboard paper that will serve as ribs to hold the construction of a dome.

Step 2: How to connect all the pieces?

Estimated time: 65 min

- Connect all the pieces using a stapler, hot glue gun with cartridges or white glue for wood. Be sure to watch for **safety** approaches because the glue is very hot!
- Assemble the paper dome with a stapler.
- Glue the ribs of corrugated cardboard on the dome's outer surface with white glue for wood or a hot glue gun to outline the shape.
- Break skewer sticks into 10 cm long columns and glue them on the inner side of the dome to make 16 pillars that hold the dome using a hot glue gun.
- Make a base for the dome out of light Styrofoam base (14x14 cm) or cardboard.
- Mark the octagonal shape where skewer sticks touch the board and create a base for your pillars using leftovers from cutting the Styrofoam.
- Glue the pillars on the base with a hot glue gun and let it set.













Step 3: Check the stability of the construction

Estimated time: 10 mins



The finished dome looks like this!



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