



How to Create an Icosahedron Lantern!

Simon Gosselin-Durocher's Creation

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1- Gather together the materials:

- Scissors
- Sharpie pen
- Pencil
- Ruler
- Sheet of paper
- Duct tape
- Adhesive tape
- Hot glue gun and hot glue stick
- Nails of different sizes
- Hammer
- Board for making holes
- Protective gloves
- Cans, plastic and the basic materials that we will collect in the recycling bin.
- String
- Ribbon, buttons, sticks, etc. (for decoration)
- Lights
- Computer and printer (optional)

2- Inside the recycling bin

Look for plastic boxes, cans, plates (etc..) in the recycling bin. Cans should be opened up so you have a single sheet of aluminium. Don't forget to rinse them and be careful with the cutting!.

3- Making the pattern/model

Materials: Computer and printer

- To facilitate the steps, download the pattern/model on the website and print it. You can draw it out if you wish, but it's not necessary. It's simply to help you find the best way to put the triangles together later on. If you don't have a printer, you could just view it on the computer screen

Note : The pattern will help you to build the model later.

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4- Cutting the triangles

Materials: Paper, Sharpie pen, protective gloves, scissors and the material found in the recycling bin.

- Draw a single triangle and a double triangle on a piece of paper. In the video, Simon made triangles of 8cm x 8cm because it works with the size of the beer can. If you're using 8 x 8 cm triangles we've also drawn them out for you (they can be downloaded on the website as well).
- Put on protective gloves (this can be a bit sharp).
- Use a Sharpie pencil and the drawing to make the outline on the cans and plastics.
- Cut out 20 triangle ; either 10 double or 20 single (or a mix of both).

Note: It's good to use some transparent plastic as well as cans as it allows some light through.

5- Making the holes

Materials: Nails of different sizes, hammer, board for making holes and protective gloves

- Take a wooden board to avoid making holes in the table!
- Take the nails and the hammer.
- Pierce the plastic and metal with the nails and hammer. Be careful! Ask for help if needed!

Note: You can make shapes, circles or just go randomly. You can also make holes of different sizes with different nails.

6- Assembling the lantern

Materials: The cut triangles, Duct-tape and the 20-triangle model/pattern

- Place your triangles as on the pattern/model
- Take the Duct-tape, cut off pieces the length of the triangles and separate into three equal pieces.
- Make the shape following the pattern. Put the tips of the triangle together and make sure they are even.
- You need to keep one corner unstuck so that you can insert your lights



7- Finishing the lantern

Materials: String, light, buttons, sticks (decoration), hot glue gun and hot glue stick

- Take some string, tie a knot at the end to block it and with a piece of tape stick it inside on one of the non-transparent parts.
- You can also add decoration with twigs, threads, embellishments and more. Use hot glue to stick it on.
- After that, all you have to do is insert the light (through the little hole that you left unstuck).



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