



DIY Christmas Wavy Star Ball



Luke's 3D

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Summary

Satisfying christmas project with beautiful outcome

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Hello all,

thank you for having a look at my Christmas wavy star ball. Short history - I wanted to create geometric ornament but the one I thought of just wasn't possible without a ton of supports and support removal would be almost impossible. So I thought of another way to create it - print parts and assemble. I can proudly say that no supports are required, absolutely no waste and I think it looks great, almost like SLS printed when assembled. Want some christmas project? Here you go! Have fun and spend time with your family assembling this beautiful christmas ball.

Dimensions: 70x70x73 mm

Material: PLA/PETG

Instructions

Assembly is pretty straight forward and repetitive, not hard.

You will need:

- 20 x Face
- 11 x Connector
- 1 x Connector with hook
- glue

Steps (refer to the images above):

1. We start off with taking one of the connectors applying glue to one of the holes on side:



2. Insert face end to the glued hole. Make sure the dot on the connector points to the center of the ball. Insert faces to other 4 holes:



3. Now take connector and glue two holes. Then insert two face ends. Do this around perimeter. You will probably need to flex the face a little.



4. Continue to add faces close to the bottom. Again, repeat around the perimeter:



5. Now let's make sure we fill out all connector holes. Continue all around until you have 3 face ends side by side:



6. As you probably guessed, these face ends are to be connected with connectors. Glue three holes and place them in:



7. Almost there! Glue in the last 5 faces:



8. Last step! Now take the connector with hook and glue all the remaining face ends together. Well done!



Taking things the extra mile

You will need:

- hair spray (there's a good chance you already have one nearby your printer)
- glass jar big enough to accomodate the ball
- glitter



It is quite important to have the glitter and filament color synchronised, we don't want the filament color to peak through the glitter in case it is not fully covered.

Throw the glitter into jar, give the ball generous coat of hair spray (piece of wire to hang it on is great) so even the inside is coated. Lower it into jar, close the lid and shake. Take the ball out, give the ball another coat of hair spray so the glitter doesn't fall off easily. Now just let it dry.



Done! Now you can enjoy your beautiful self-made christmas decoration.

If you like this project, like share and follow me for more adventures!

Happy Christmas!

Luke

Model files



connector.stl



connector-with-hook.stl



face.stl

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