

# COVID MASK HOLDER

EASY AND HANDY



Designed by Eduka3D

# PROJECT

Solution for social need

## COVID MASK HOLDER

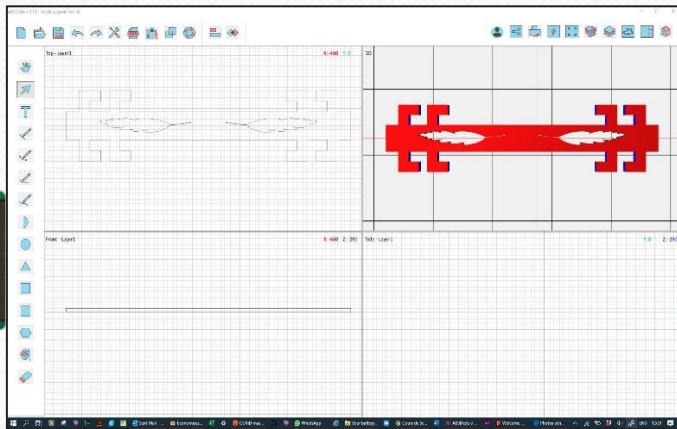


Research – Interview - Model – Design – Slice - Print

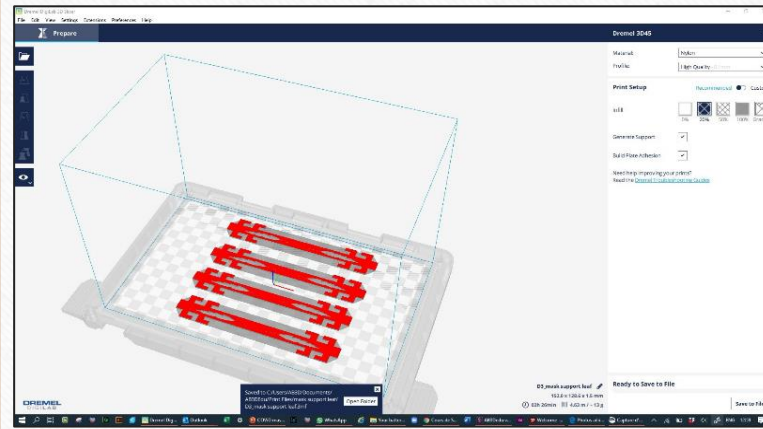
# COVID MASK HOLDER

Solution for social need

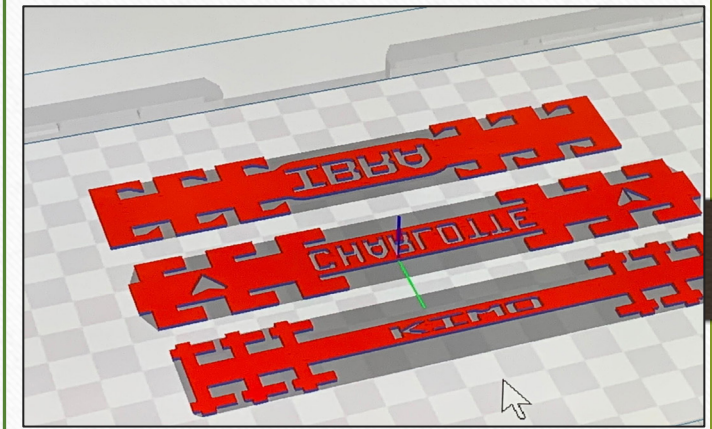
Aesthetic



Functional



Personalized



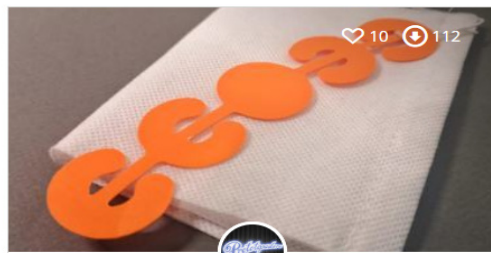
Research – Interview - Model – Design – Slice - Print

# COVID MASK HOLDER

## Research & Interview

Student researches to find models that she might reproduce with adding an innovative touch

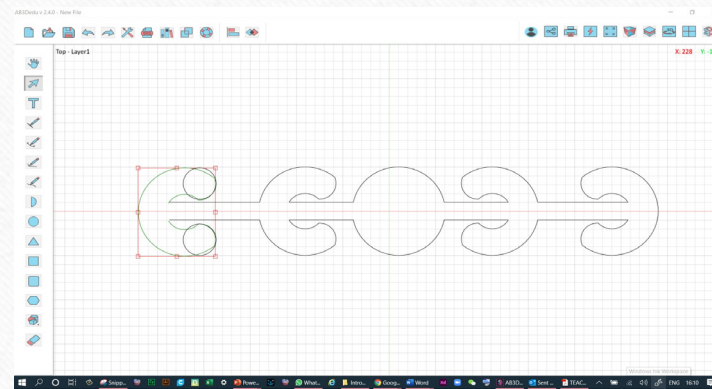
<https://www.youmagine.com/ultierik/collections/covid19>



Ear Saving Cut Files  
Luis Cordoba

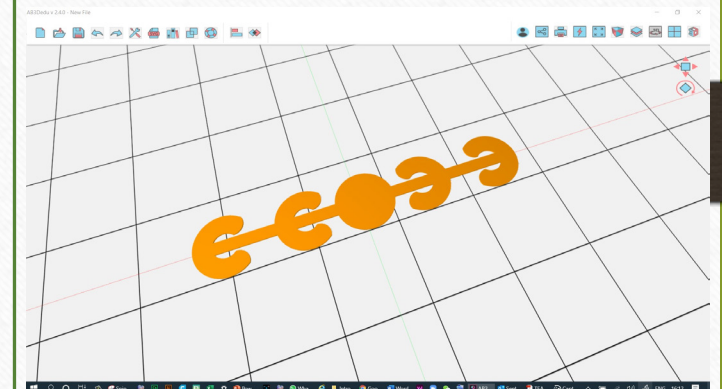
## Model & Design

Student will use different ways to easily model her design following the easiest and fastest path



## Slice & Print

Student prepares her file for printing and applies adequate settings to get the best results



Research – Interview - Model – Design – Slice - Print

# Step 1. Research

- First we have to define the problem
- People are suffering from putting the mask behind their ears
- Listen to their voice
- Think how you can help, and search for ideas



# STEP 2. What do you need ?



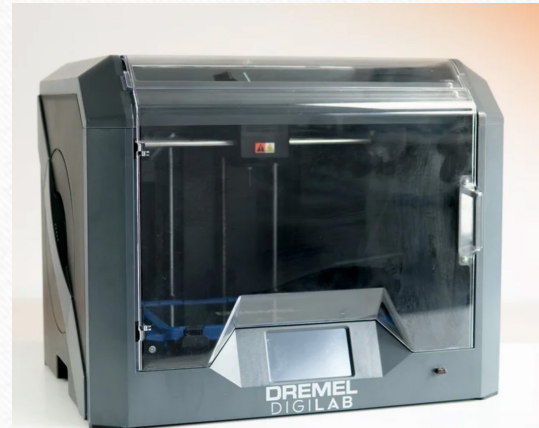
Head measurements

A piece of paper, a ruler and a pencil



AB3Dedu software

A 3D printer



# Step 3. Measurement

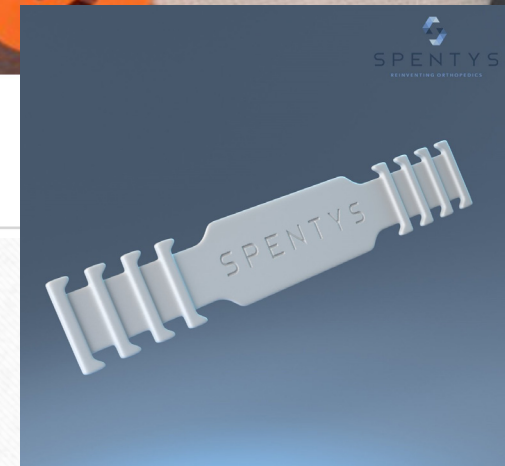
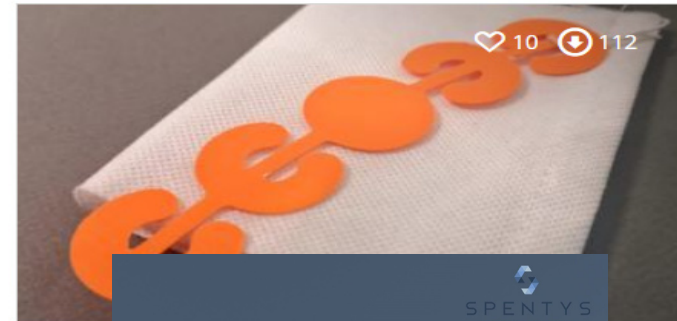
- First we have to measure the back of your head
- Hold your head with hand open
- Measure the width of your hand
- This is the length of the holder



= 150 mm

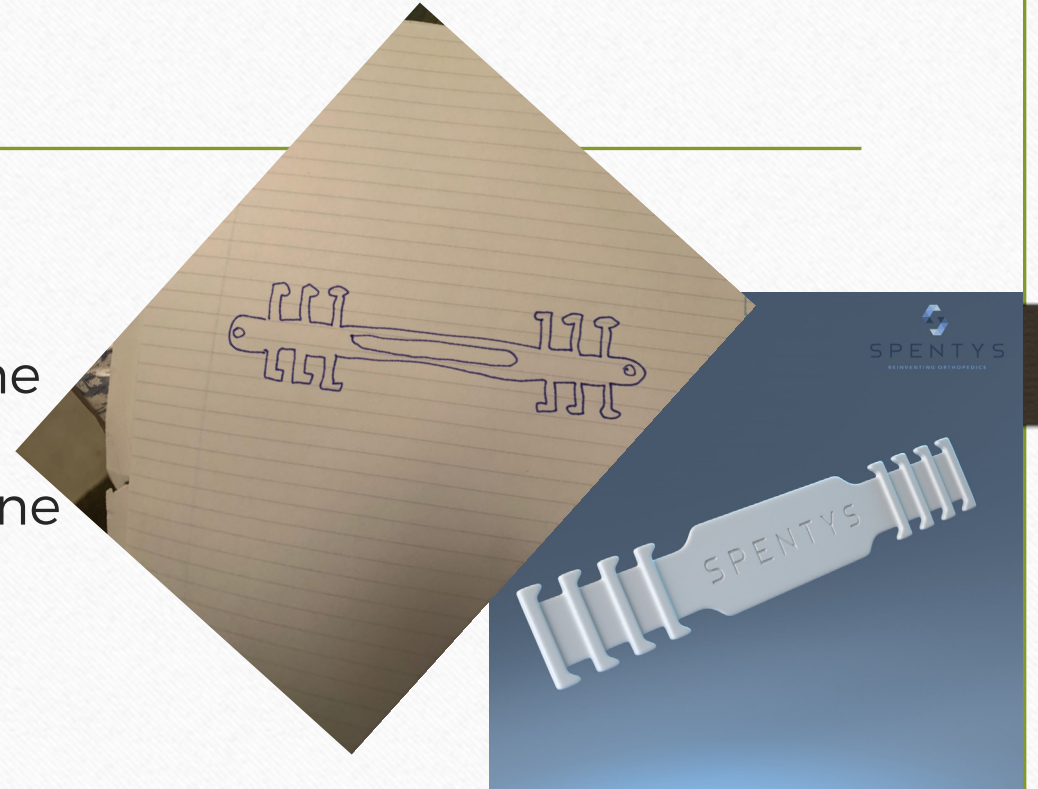
# Step 4. Research

- Use a piece of paper and a pencil to design the holder
- Be creative to make a nice design but remember that it must hold the string of the mask
- Imagine the holder in the photo and imagine how it looks
- Try to make it light and functional
- You can use a carton prototype to stay in control.



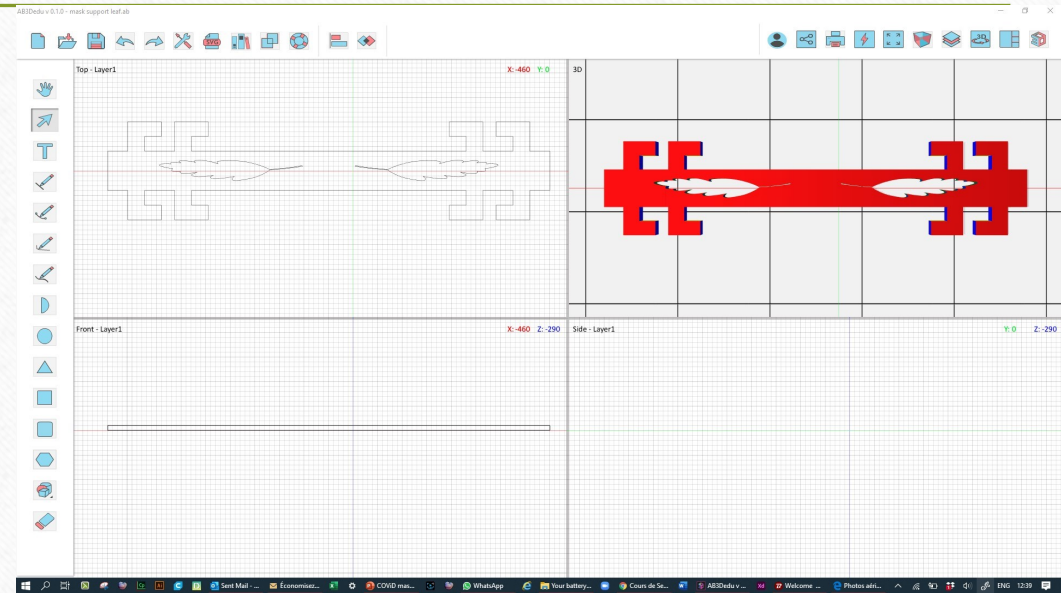
# Step 5. Design

- Use a piece of paper and a pencil to design the holder
- Be creative to make a nice design but remember that it must hold the string of the mask
- Imagine the holder in the photo and imagine how it looks
- Try to make it light and functionable
- You can use a carton prototype to stay in control.



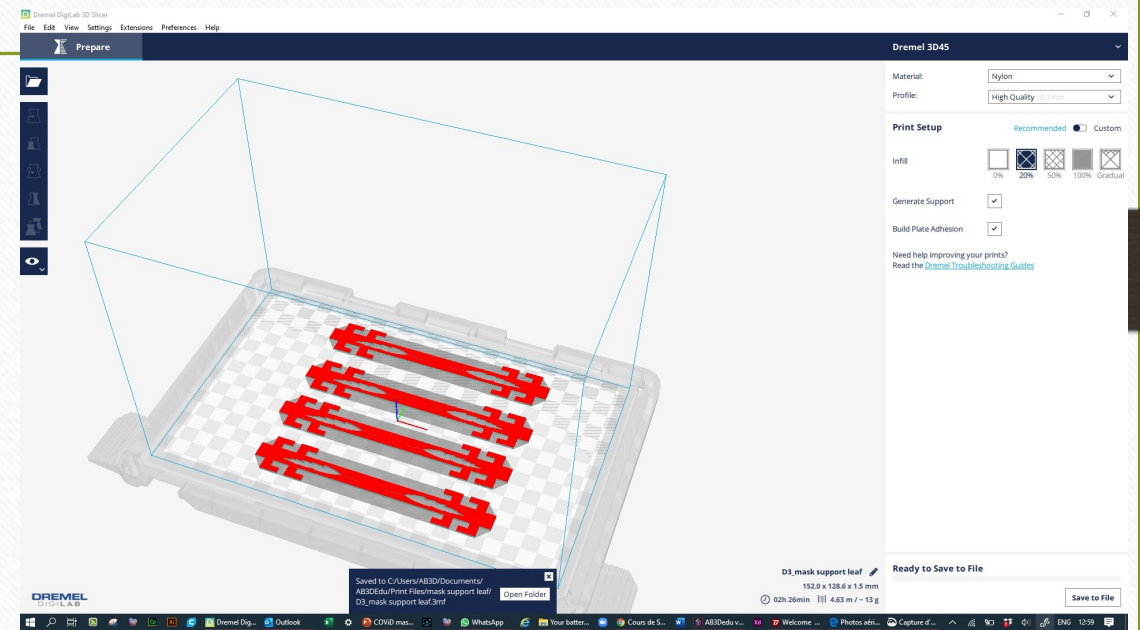
# Step 6. Modeling in 3D software

- Use AB3Dedu to design your project on computer.
- It's not as straight forward as you may think
- Change colours as you like.
- Remember about dimensions of your project.
- Save your file in STL format.



# Step 7. PREPARE IT for 3D printing

- Import your STL file in your printer slicer software.
- Adjust your final dimensions using the slicer SW scaling function
- Select a good orientation of your project that eliminates supports
- Slice your object and save your g-code file
- Print.



You may duplicate it and print many in one shot

Step 8. ENJOY the result!

