

# 3D Modeling & Electronics

Here starts  
the lesson!

# Initial Project

For this project we were asked to create a three-dimensional models on ThinkerCad, that would then be printed and displayed with a LED light we wire ourselves. The Idea was to take basic shapes and turn them into something unique that would get printed into a three-dimensional object, along with that we were taught to Solder in order to add the wiring to get the lights working on the bottom box. This taught not only how to create 3D designs but to wire, and how to properly Solder.

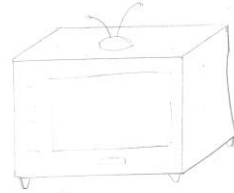


01

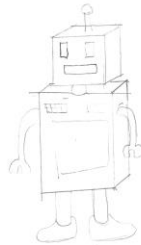
# Sketches

Different Ideas for the  
3D Print

# Different Ideas



Television



Robot



Hourglass

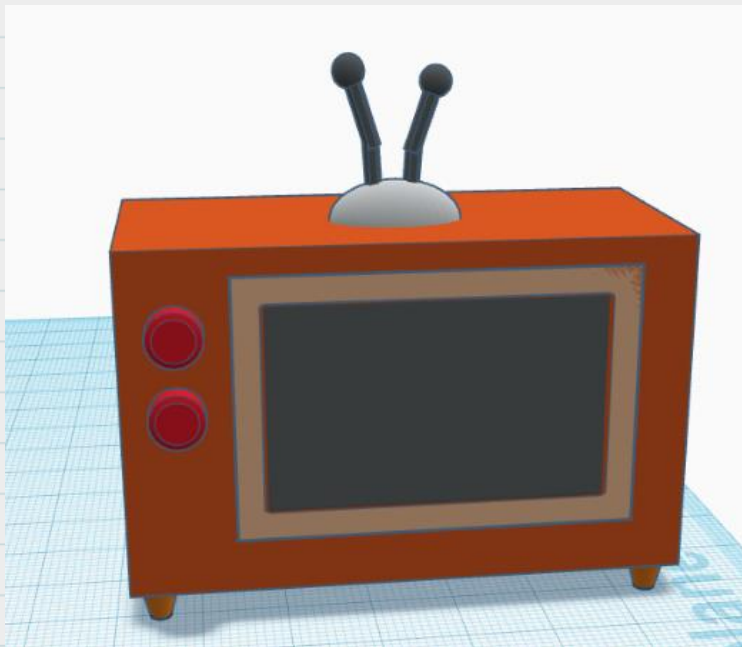
A graphic of a spiral-bound notebook with a white page and an orange border. The spiral binding is at the top. On the left side, there are two horizontal tabs, one pink and one orange. In the center of the page, the number '02' is displayed in a large, bold, black font, surrounded by a light blue circular arrow. Below this, the text 'Tinker Cad' is written in a bold, orange font, and 'Final Decision made in Tinker CAD' is written in a smaller, black font.

02

# Tinker Cad

Final Decision made in  
Tinker CAD

## Vintage TV





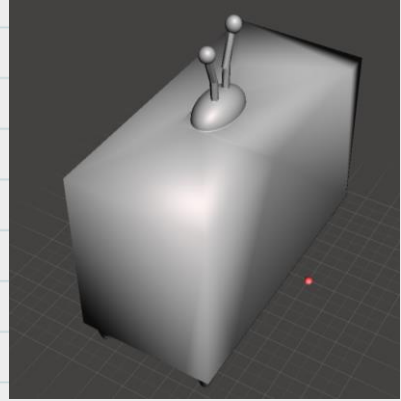
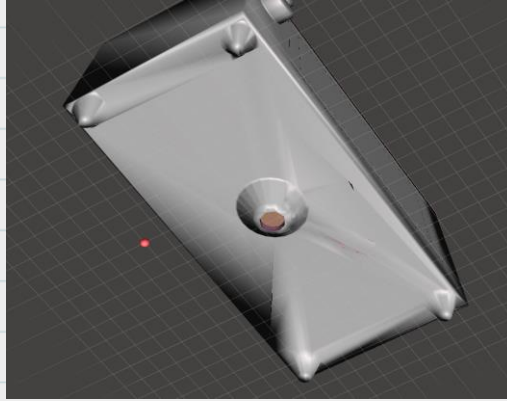
03

## Mesh mixer

This is the final product

# Meshmixer

- This is once the TV has been cleaned and made hallow with the hole at the bottom







04

## Final Design

This is the Final Design  
after it was Printed

## Final Object



A graphic of a spiral-bound notepad with a white page and an orange border. The notepad is set against a blue background with a subtle pattern of small white dots. The spiral binding is at the top, with ten black rings visible. The page contains the text '05' and 'Artist Statement' in a bold, sans-serif font.

**05**

# **Artist Statement**

# Artist Statement

- For my project I couldn't figure out exactly what I wanted to print. To me the ability to print something that I could showcase in my home was such a big deal. I thought about doing a robot, something special from my home, something to do with nature or something completely different. As I was browsing through different things at a thrift store, I came across a small old tv, it reminded me of the one I used to watch as a child in my grandparents' home. After some research at old tv's I decided to go with a more cartoonish look to the tv and settled on the big crazy antennas, and the dome on top with some dials and parts on the side. Despite the simple design making sure that all the different details would come out was a difficult task. Once printed I knew I wanted the only thing to truly light up is the Screen, So I decided to paint the rest of the tv and leave that part clear and open. This was more difficult than I anticipated with sanding and the different layers needed to make it opaque, however I liked the result.