

CHOCOHOLIC

Designer Chocolate Bar

Rebecca Maunder

Pepeha

Ko Parihaka te maunga

Ko Hatea te awa

No Whangarei ahau

Ko Kallu toku whanau

Ko Mike toku papa

Ko Kay toku mama

Ko Rebecca toku ingoa

I have taught at WGHS for 23years

I have strong links to Whananaki

I have 3 boys - 18, 15 and 11 years

I live in Kauri, Whangarei, NZ

I make and sell artwork in my spare time



Whanga - The Whanganui estuary is the most special place to me. We love to explore this area, swimming, waterboarding, kayaking etc.

I'm - my heritage belongs to the Maunder and Anderson clans. My children have Indian ancestry, hence the Indian pattern in the background.

Marae - our marae is my mums home, unfortunately she passed in 2011 due to cancer. We treasure her home and frequently gather out there with our extended whanau.



EST 1995

TOKU TURANGAWAEWAE

MY PLACE TO STAND

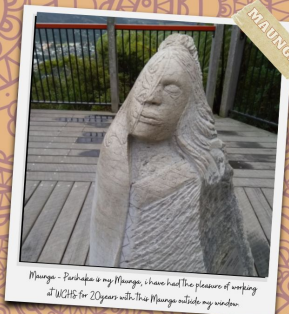
TAONGA

WAKA

MAUNGA



Waka - The first vehicle I ever owned was a 1962 Morris Minor. Mum and dad paid \$500 for it. I needed it back to motel and reported in bright blue. Many adventures were had with friends and family.



Maunga - Parihaka is my Maunga, I have had the pleasure of working at WGHS for 20 years with the Maunga outside my window.

MS MAUNDER





Ms Maunder - CoinedNZ

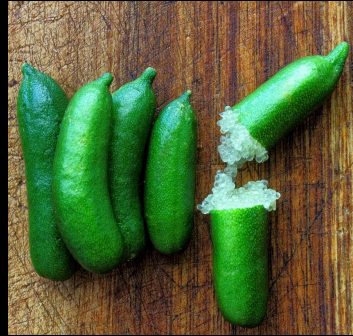


Ms Maunder - CoinedNZ



Rebecca Maunder

KBKAU2
Bell house
HOD Technology &
Switch



This morning we will.....

- Go through the design brief that we cover with students
- Explain some of the equipment and tools we use

Mayku formbox, laser cutting, 3D prints, Adobe Illustrator

- Look at some student exemplars

Chocolate bar & Kinder Project

- Have a go at using the vacuum former.
- Package our molded chocolates.

Year 10 DVC - 2 terms

Chocoholic Project

Emphasis on process, tools, equipment, problem solving, hooking them in and having fun.

Tiny House

Sketching, presentation, 3D modelling, Digital modelling

Timeline

Term 1

- 2 **CHOCOHOLIC** Intro / Research
- 3 Sketching Initial ideas
- 4 Vacuum forming/laser cutter
- 5 Concept design x 3
- 6 Final / testing
- 7 Packaging
- 8 Packaging
- 9 Final assessment / photograph
- 10 **TINY HOUSE** Intro / Sketching
- 11 Sketching skills

Chocoholic Brief

You are going to design a chocolate gift for a family member, friend, relative, coach etc.

Throughout this process you are required to document your research, ideas, prototyping, notes and design solutions.

Specifications

Visually appeal to your intended recipient

no bigger than - 100 x 60 x 20mm

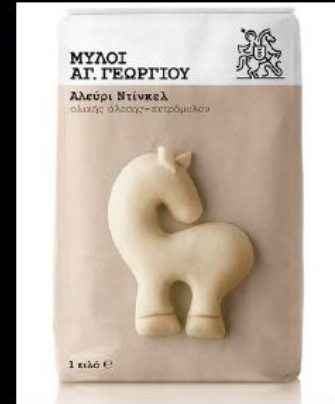
meet Vacuum forming requirements

Research

Then complete research filling 1-2 A4 pages
(15+ images minimum).

You will need a variety of research, chocolate bars, shapes, moulds,
packaging etc....
Also, things that relate to your person....

My pinterest board:
wghs design / chocolate



Initial ideas

Sketch some ideas relating to your person.
Think about crating, 3D, line work etc...
Simplify ideas into patterns/ideas for a chocolate bar,
create at least 4 designs to choose from, be as creative as
possible.



Prototyping ideas

Using either Tinkercad for 3D modeling or Adobe Illustrator for Laser cutting,
create your chosen design.
Take snips to document your ideas and digital solutions.
Test your design ideas, what has worked? what have you had to change along the way?

Packaging

Design a package to contain your chocolate bar, think about adding a tray to contain your finished chocolate/s
Construct make and present your final design. Think about window placement, design, the net, tabs, logo, type of card etc. templatemaker.nl

Presentation

Make sure you document your process!!!!!!

Visual diary or in google docs/slides/presentation





Search

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Following

wghs



Invite

chocolate design

27 Pins • 300 followers

Your Pins

More ideas

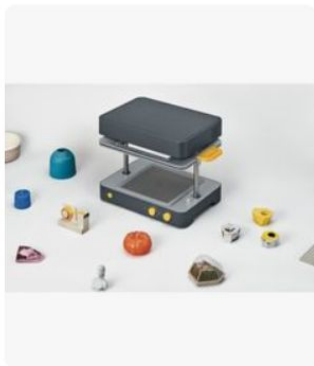


Organize



FormBox: A Desktop Vacuum Former That Makes...

kickstarter.com



Mayku Formbox UK



Conoce la nueva Mayku FormBox para negocios...

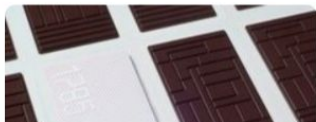
by Plotteralia



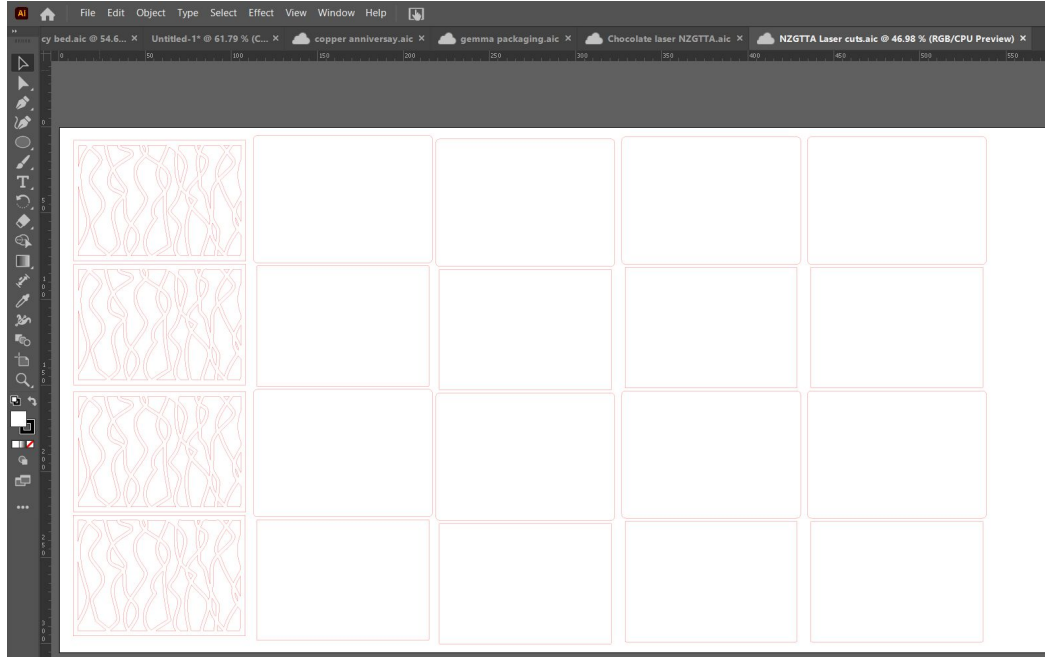
Kahve-Dünyası chocolate food design

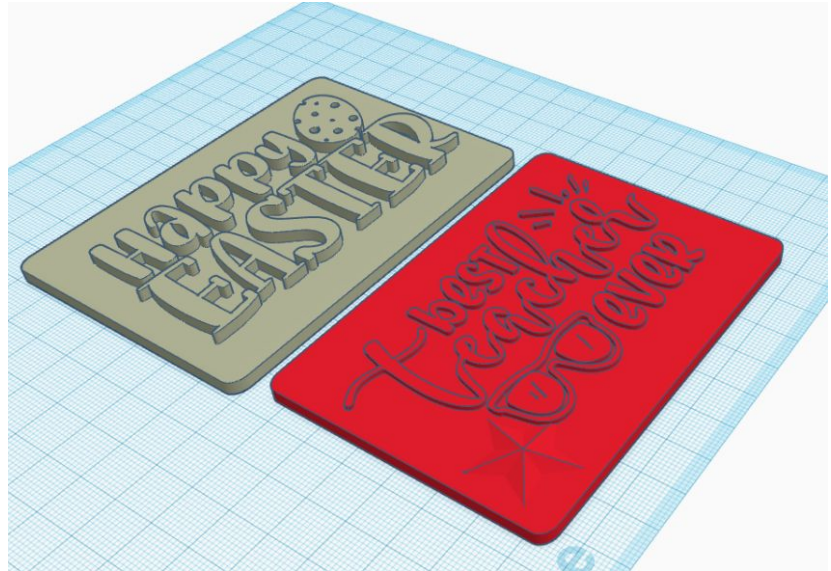
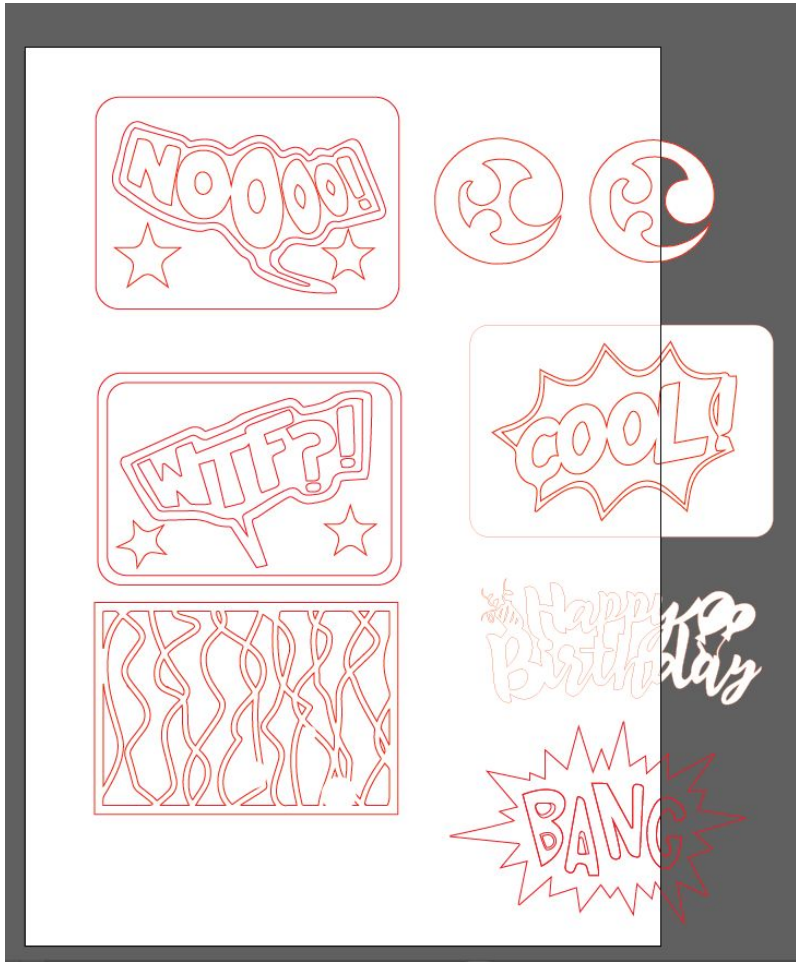


Chocolate



Adobe Illustrator & Laser cutting






Download 3D Print

Include Everything in the design.
 Only the selected 2 shapes.

Take Your Designs Further with Autodesk

 Autodesk Fusion

For 3D Print

For Lasercutting

[More information](#)

Export for Screens

Artboards Assets

Asset 1 Asset 2 Asset 3

Select: All Assets

Export to: C:\Users\ybecca.m...Downloads\SV

Open Location after Export
 Create Sub-folders

Scale Format

Export PDF's as: Single File Multiple Files

Formats: iOS Android

Scale: teacher Format: SWG

Clear Selection Prefix:

Selected: 1, Total Export: 1

Print settings

Profile Normal - 0.15mm

Search settings

Quality

Layer Height 0.15 mm

Walls

Wall Thickness 0.8 mm

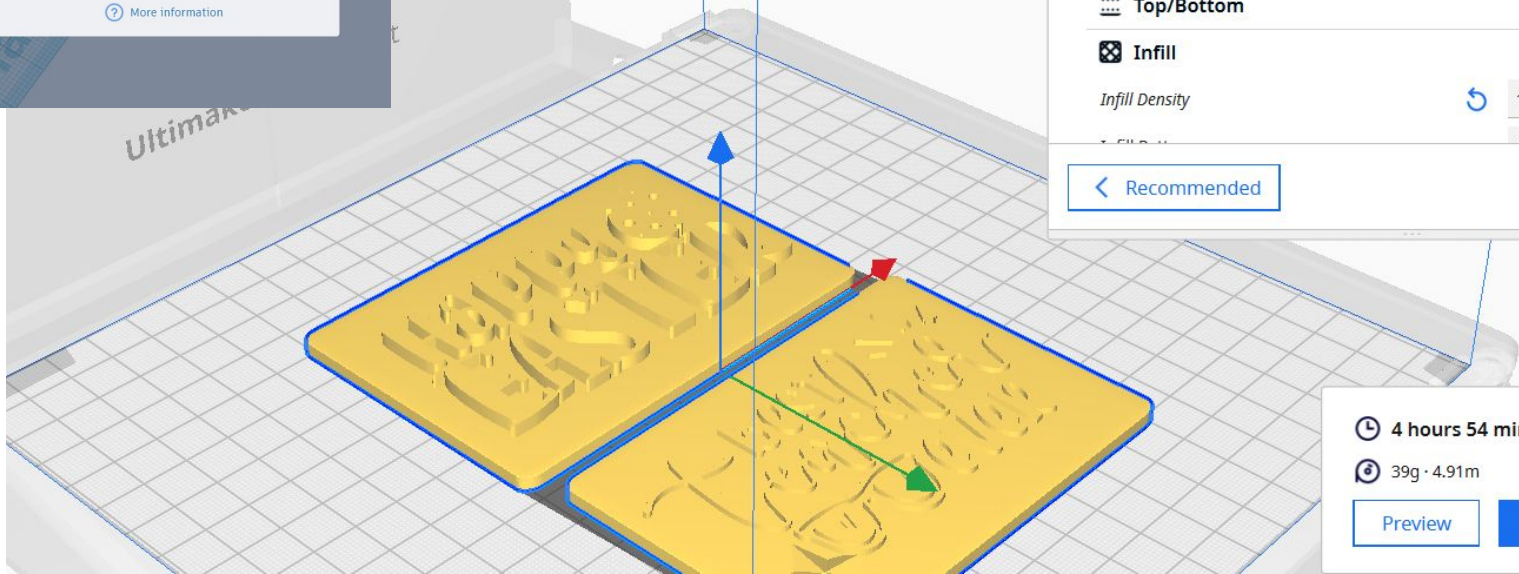
Wall Line Count 2

Horizontal Expansion -0.015 mm

Top/Bottom

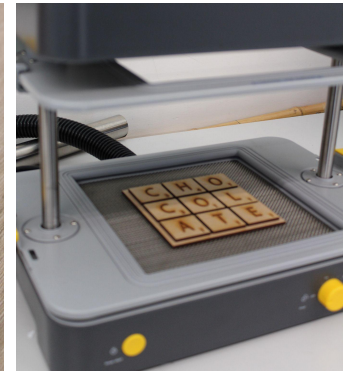
Infill

Infill Density 10.0 %



 4 hours 54 minutes 

 39g · 4.91m



Ceramics & Modelling

Clay & Modelling Materials

- Air Dry Clay
- Dough
- Kiln Fired Clay
- Modelling Clay
- Oven Bake Clay
- Papier Mache
- Sensory Sand

Clay Decoration

- Earthenware Glazes
- Stoneware Glazes
- Tissue Transfers
- Underglazes



Mayku FormBox Thermoforming Machine



Save 25%

\$1,115.40 (Ex GST)

Was ~~\$1,494.95~~ (Ex GST)

\$1,282.71 (Incl GST)

Quantity

-	1	+
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✓ In Stock

Buy

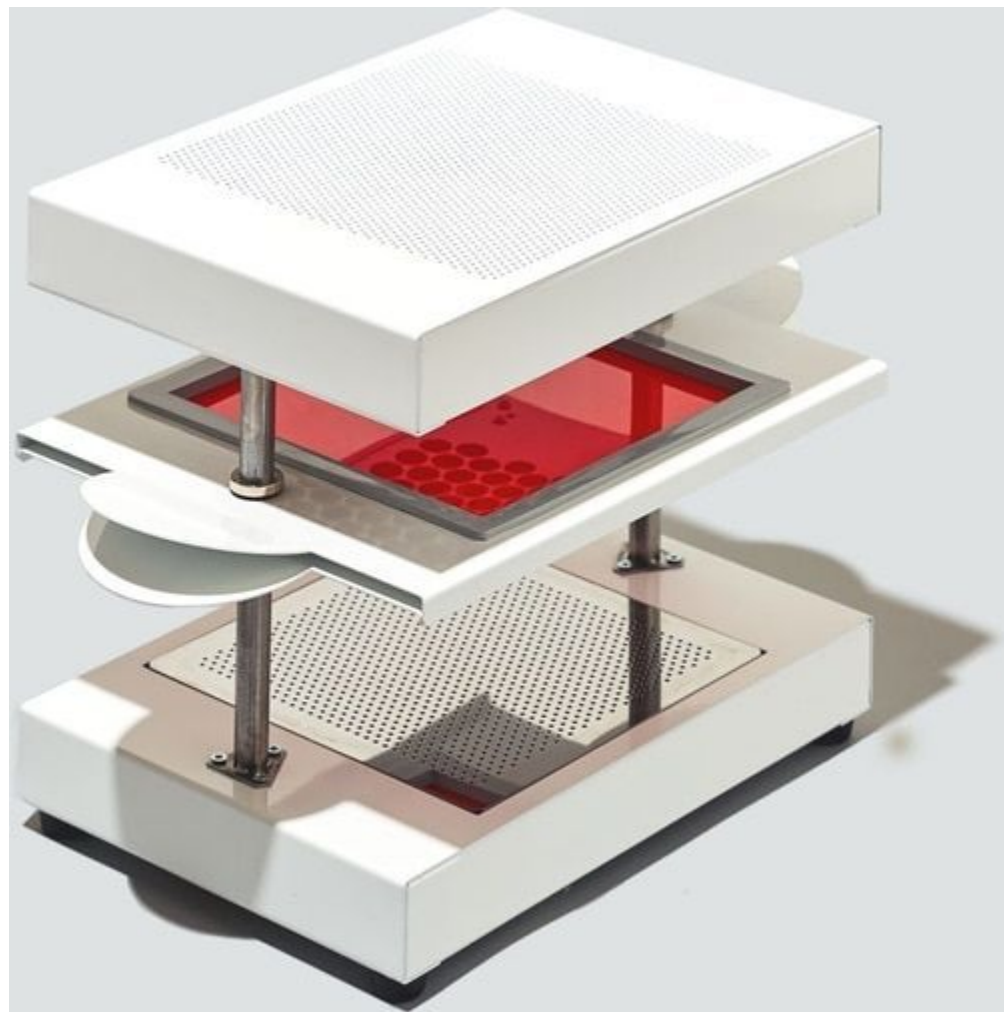
Product Code BD001

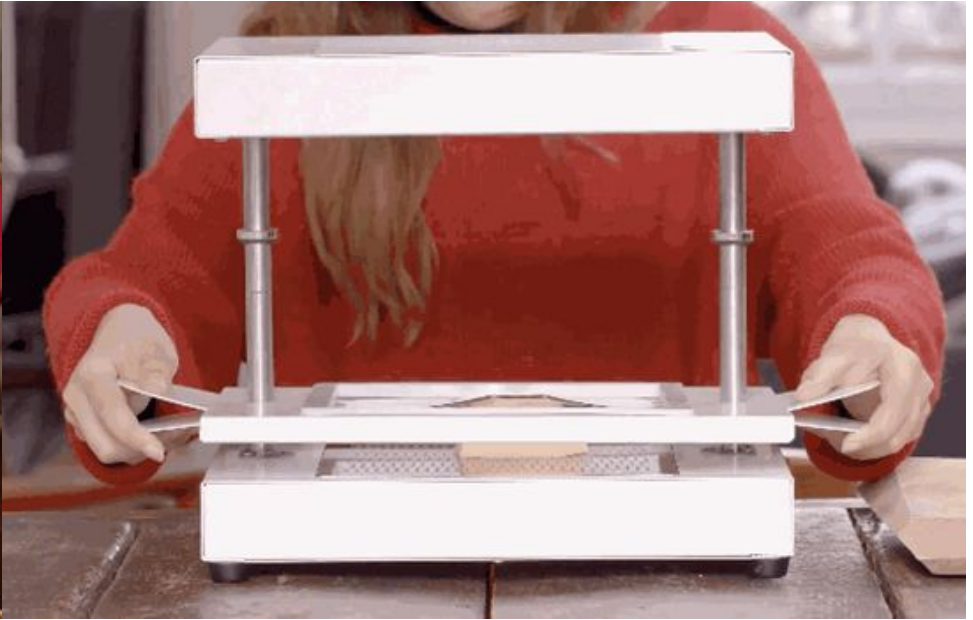
Description



Vacuum Forming

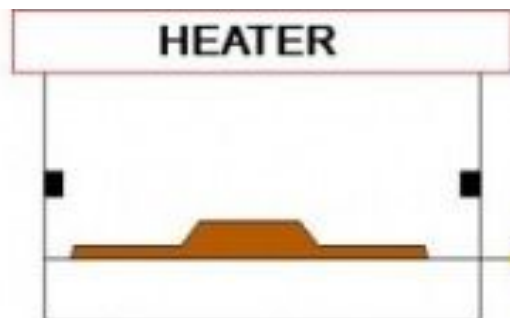




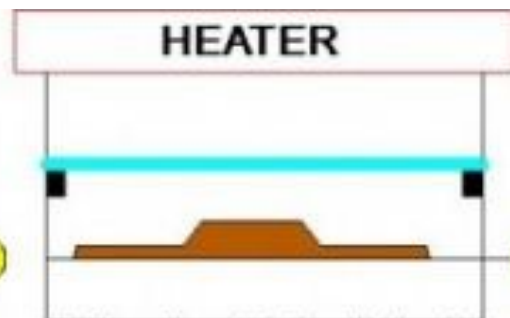




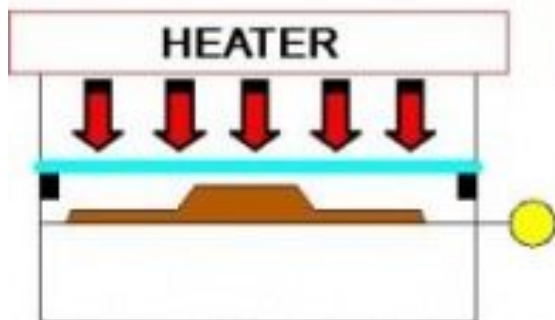
1. Mould is made from MDF or Expanded Polystyrene



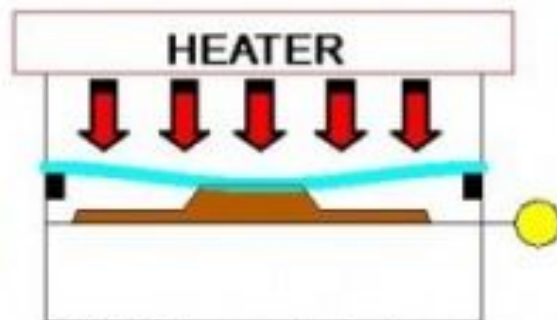
2. The mould is placed in the bottom of the vacuum former



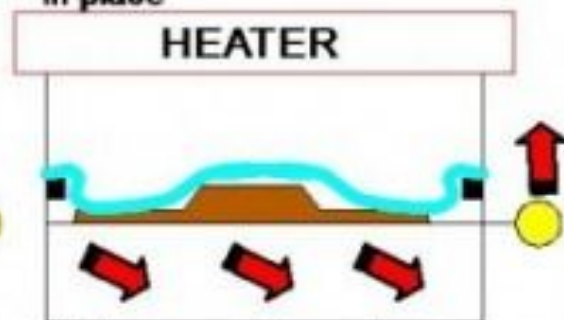
3. The sheet of plastic is placed above the mould and clamped in place



4. The electric element (heater) is turned on and begins to warm the plastic sheet

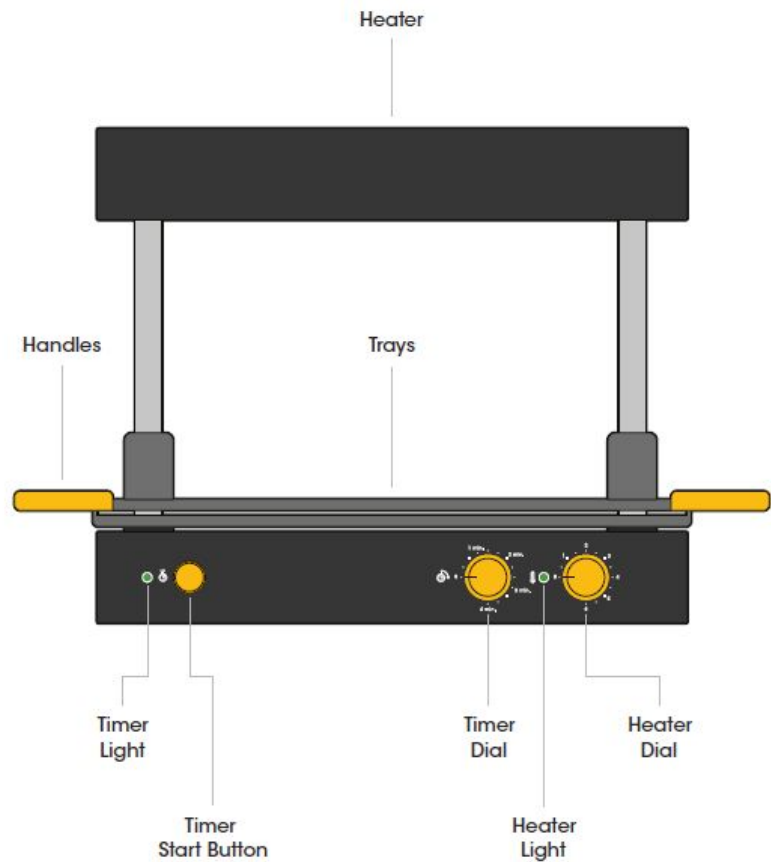


5. The Thermoplastic becomes flexible as it is heated. The mould is moved up to the plastic using the handle

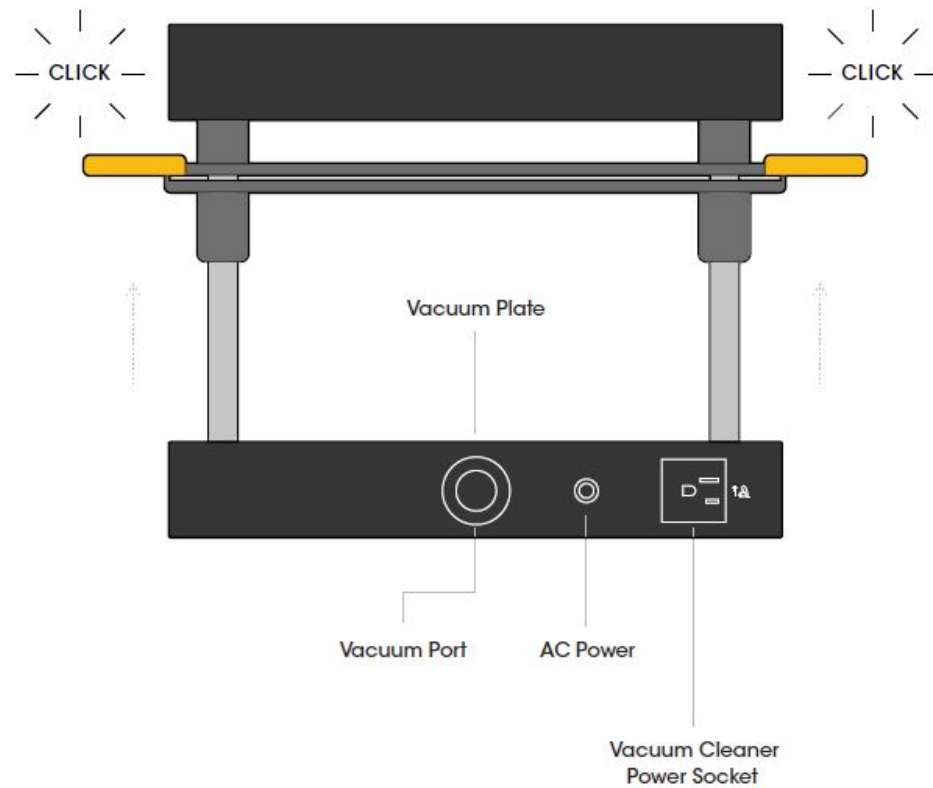


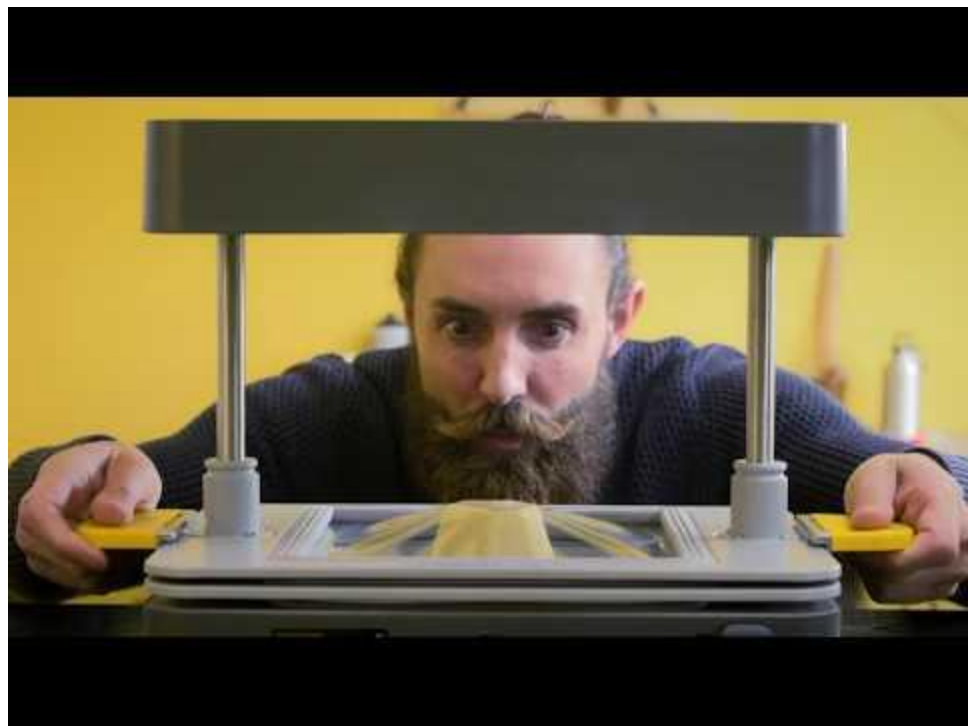
6. The pump is turned on and the air is removed from under the plastic, sucking the plastic over the mould

Front



Back



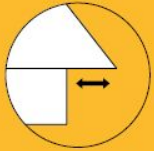




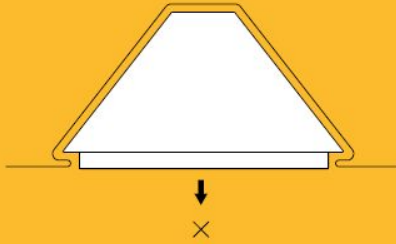
Rule #1

Remove all undercuts

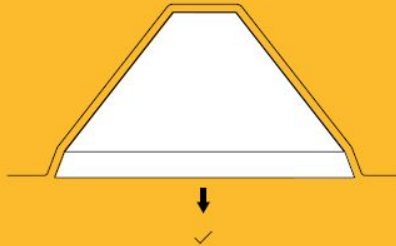
Undercuts make it difficult to remove templates once they have been formed. Make sure your design doesn't have any ledges or indents that could stop a template from being removed.



Undercut



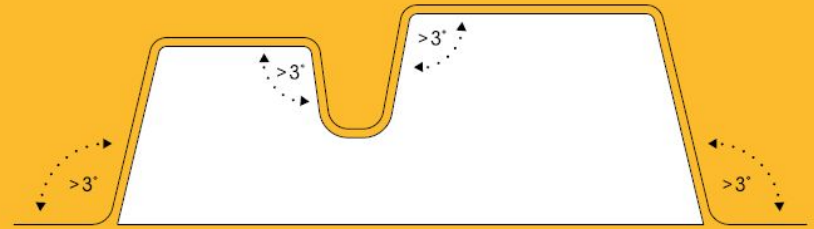
No undercut



Rule #2

Add draft angles

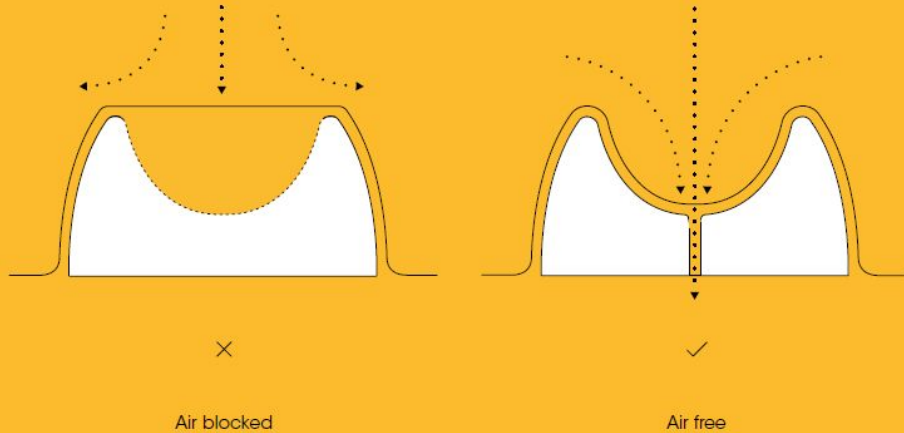
Draft angles are slopes on the edges of your templates. They help you remove templates from the vacuum form very easily. The slopes on the edges of your forms should point outwards not inwards, so templates come out with little effort.



Rule #3

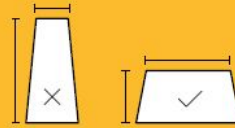
Add air holes

Adding air holes will allow air to flow freely through your design to the vacuum plate. This will help your Mayku Sheet get into the tiniest of spaces.



Height / Width Ratio

Generally, templates should be wider than they are tall. This helps avoid thinning at the top of the form.



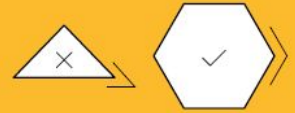
Mute

If you would like to turn off the FormBox sounds, turn on the heater to any setting then press and hold the timer start button for 7 seconds. Repeat to turn them back on.



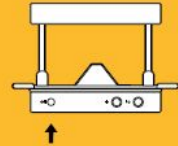
Avoid Webbing

Avoid sharp angles less than 90 degrees. This can cause 'webbing', as the sheet material can bunch and fold onto itself. Also ensure that you lower the trays softly when forming.



Vacuum Shut Off

To turn the vacuum off in the middle of suction, press the timer start button to cut the power to your vacuum cleaner.



PACKAGING



templatemaker.nl

[about](#)

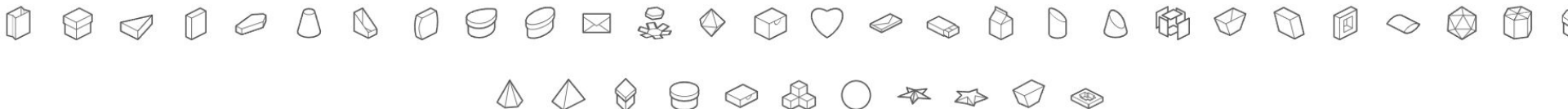
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Match Box



Dimensions

Units

- mm
- cm
- inch

Length

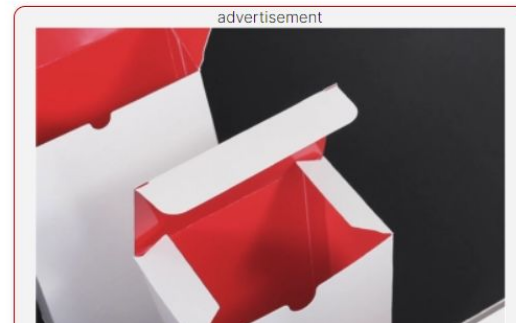
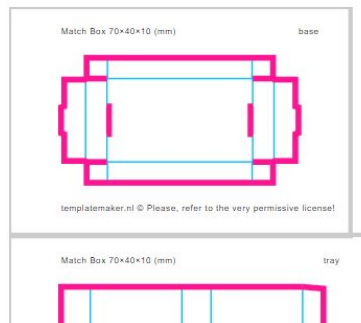
70

Width

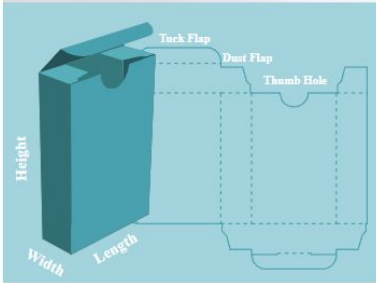
40

Height

10



Card Box



A long, thin tube shaped box that can be opened from either end. You'll find hundreds of different models of these at the local supermarket. It is used as

Dimensions

Units

- mm
- cm
- inch

Length

Width

Height

Optional parameters

Thumb Hole Diameter

Tuck Flap Size

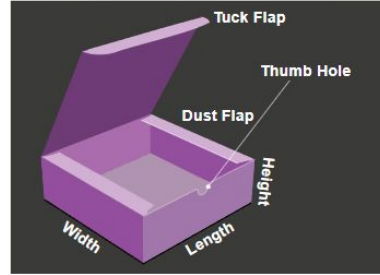
Glue Flap Size

Glue Flap Angle °

Material Thickness

Rounded Corners Radius

Shallow Box



A basic box, much like the "Card Box" and the "Gift Box". This specific template is most economical for boxes that have small height compared to both the width and the height, for example a box for a tart or

Dimensions

Units

- mm
- cm
- inch

Length

Width

Height

Optional parameters

Dust Flap Size

Thumb Hole Diameter

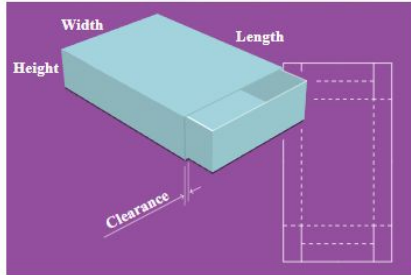
Tuck Flap Size

Glue Flap Size

Glue Flap Angle °

Material Thickness

Match Box



The Match Box is a simple tray-and-sleeve box. To pack accessoires, dolls,

Dimensions

Units

- mm
- cm
- inch

Length

Width

Height

Material Thickness

Clearance

Optional parameters

Glue Flap Size

Glue Flap Angle

Mailer



Dimensions

Units

- mm
- cm
- inch

Length

Width

Height

Overlap

Optional parameters

Thumb Hole Width

Thumb Hole Rounded Corner

Material Thickness

Rounded Corners Radius

Dust Flap Size

Dust Flap Angle

The mailer is an extra thick envelop that can be used to pack items that are flat, but thicker than just a sheet of paper. It can hold, for example, a pile of cards or a bag of flower seeds. Use a piece of sticky tape to keep the cover in place.

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Decorative Flourishes An...
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black minimalist alphabe...
Logo by FlyBets



black minimalist wildlife ...
Logo by FlyBets



Blue Business Architectu...
Logo by Coach Design



Yellow Green Business Ar...
Logo by Coach Design



Home
This Device
PeaDrive
Dropbox
OneDrive
Google Drive
Shared Drives
Shared with me
Private Folder
PeaGames

Save

Photopea

New Project Open From Computer Templates

File Edit Image Layer Select Filter View Window More Account Paper Logo Mockup * x

Auto-Select Layer Transform controls Distances

History Swatches

Open

Layers Channels Paths

Pass Through Opacity: 100%

Lock: Fill: 100%

- [YOUR LOGO HERE]
- Light
- Shadow
- Background
- BG
- GRAPHICSFAMILY.com

YOUR LOGO
MOCKUP HERE



Exemplars



2023
YR10
Kinder
Project

[LINK](#)



Kinder

Project



Research/Facts

- There is an estimated production of 1.2 billion (1.200. 000.000) toys (Kinder Surprise Toys) a year
- Kinder Surprise was originally created with children in mind, replicating an Italian Easter family tradition in which adults give children a large chocolate egg with a toy inside.
- However, Kinder Surprise toys have become collectible for adults as well. Collectors often try to acquire all toys within a themed set.
- At Easter 1974 the Italian confectionery manufacturer invented the Kinder Surprise
- Kinder is a German word meaning children.
- Trying to bring one into the county can result in a \$2,500 fine per egg.
- The Kinder originated in Italy
- Three-and-half billion Kinder eggs are sold globally each year
- Michele Ferrero, the inventor of the Kinder Surprise Egg

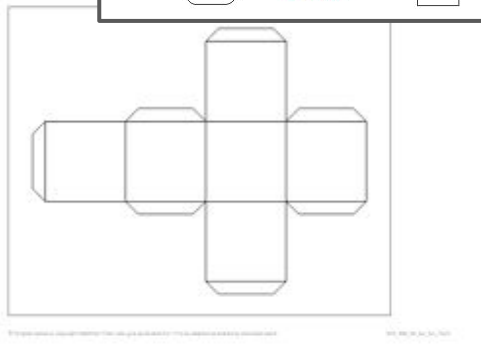
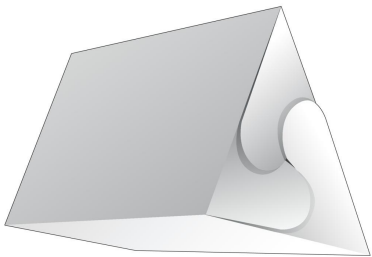
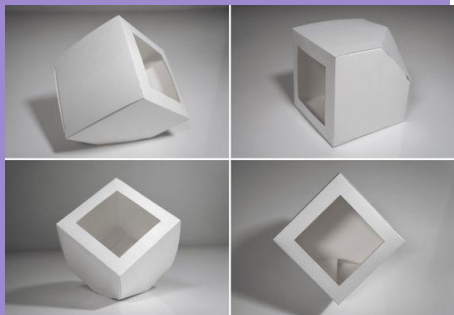
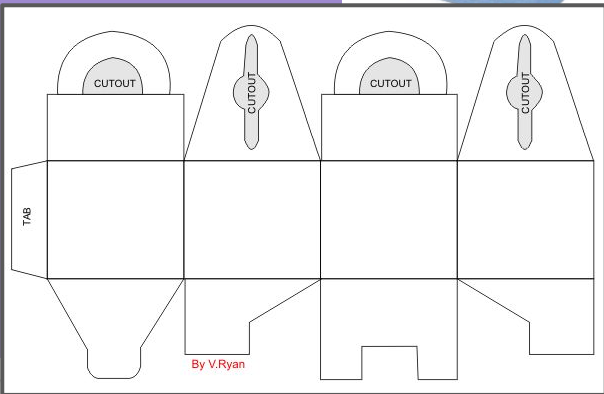
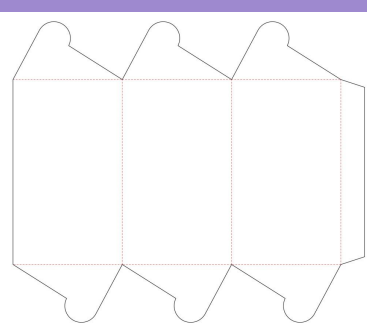
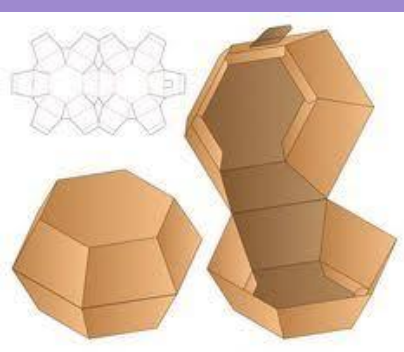
Toy ideas



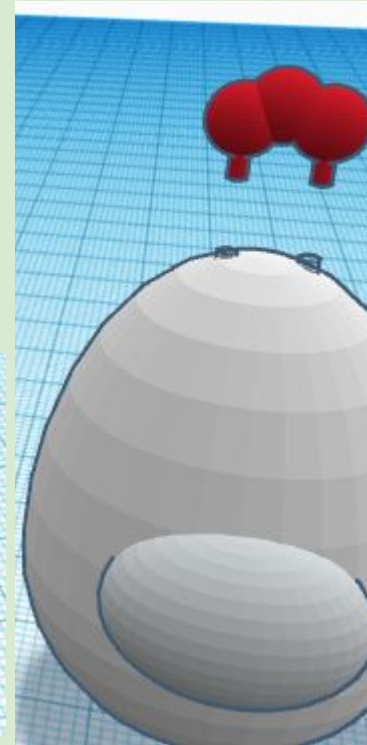
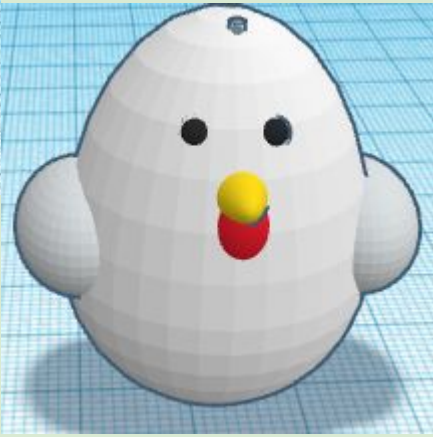
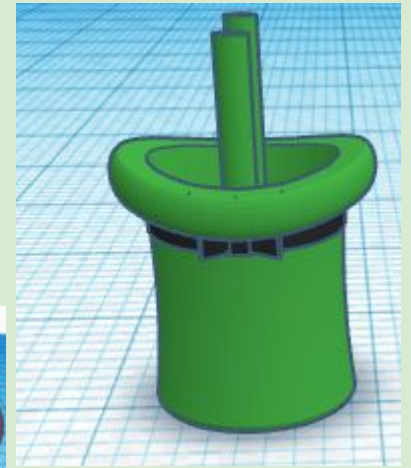
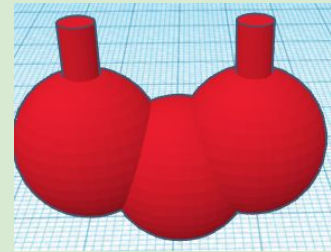
I could make a keychain that is able to pull apart. This idea will be great because it will be used for something.



Packaging ideas



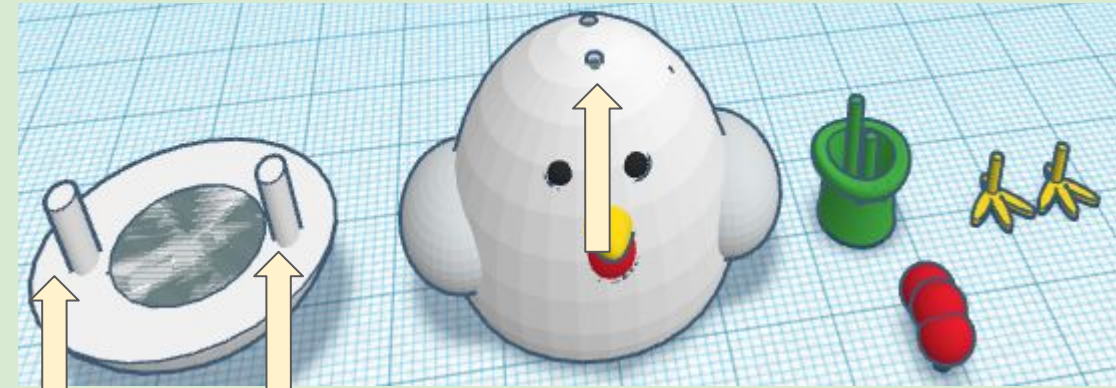
Tinkercad Toy



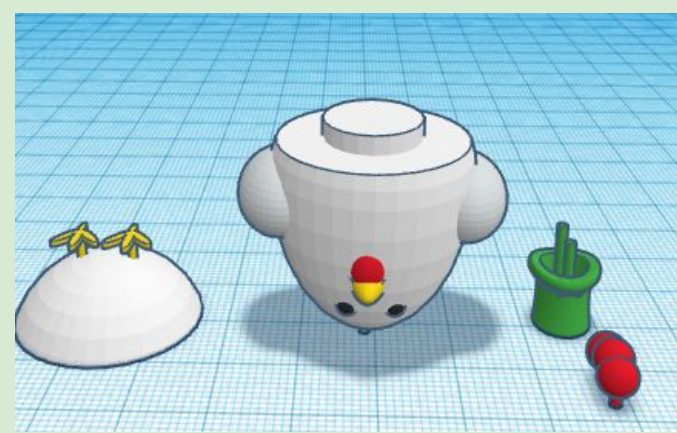
The hat and comb can be swapped, so the chicken can wear a hat or its comb



TOY - Fails

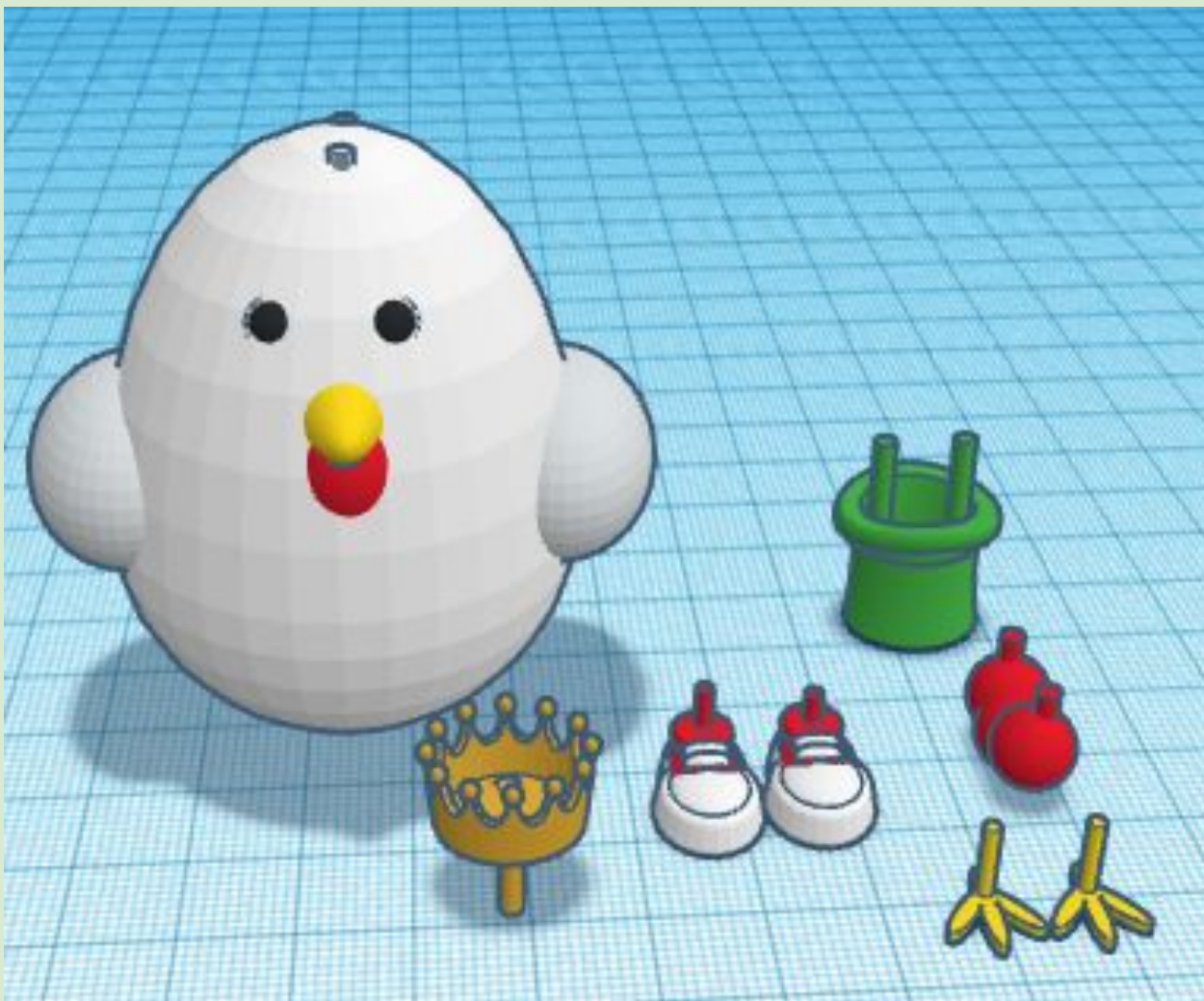


REASON IT FAILED - because the hat did not finish printing, and the comb of the chook did not fit in the holes in the head. The body was unable to connect together



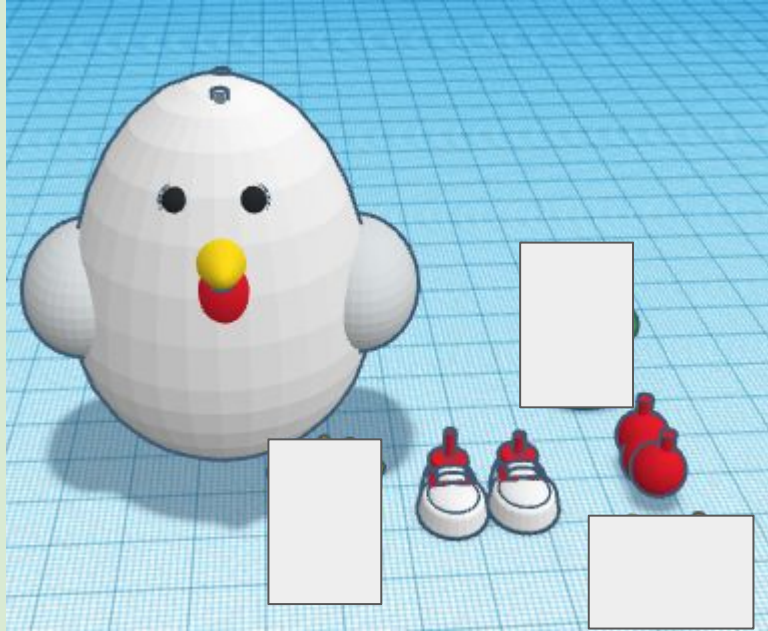
Changed to this which also failed because the feet broke off and the hat didn't finish printing. The wattles also did not fit in the holes in the head.



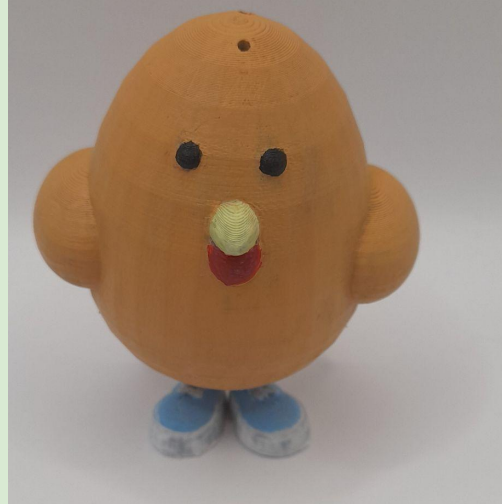


Hat, crown, and feet did not print properly, they either didn't finish printing or were too small

Final Kinder Surprise Toy



Digitally



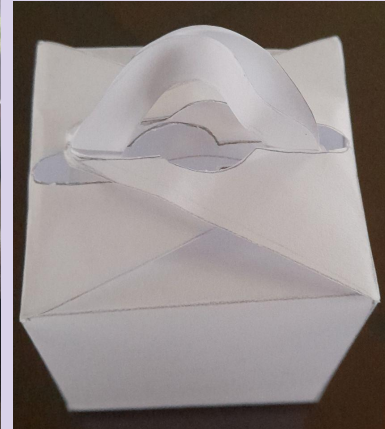
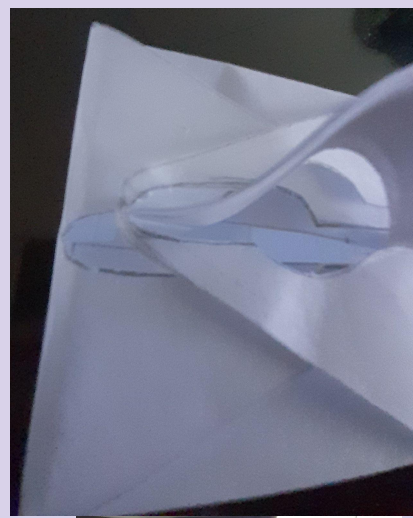
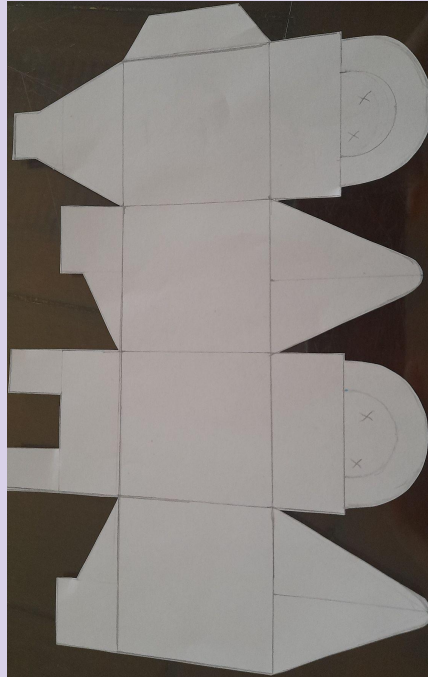
Printed out and painted

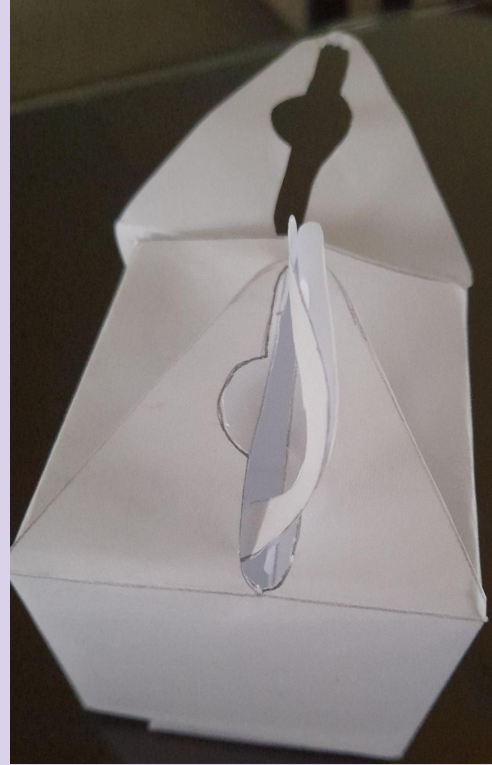


Why did this design fail?

- The box was too small
- The handle didn't fit right.
- The box was not tall enough
- Some parts of the box ripped.

PACKAGING FAILS





FINAL PACKAGING

Ingredients: Sugar, Sustainable RSPB Palm oil, Milk Solids (18%), Cocoa Powder(4%), Emulsifiers(322,492), Natural Flavour.

Natural Information
(per 100g)

Energy	2218kj
Protein	4.7g
Fat Total	29.5g
Saturated	61.8g
Carbohydrate	61.0g
Sugar	72mg
Sodium	

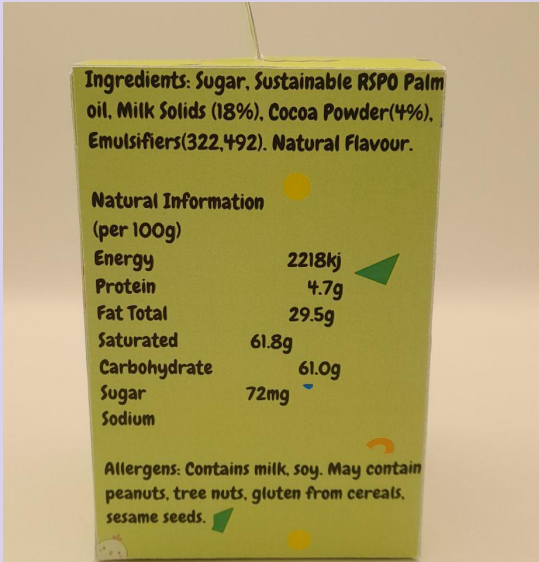
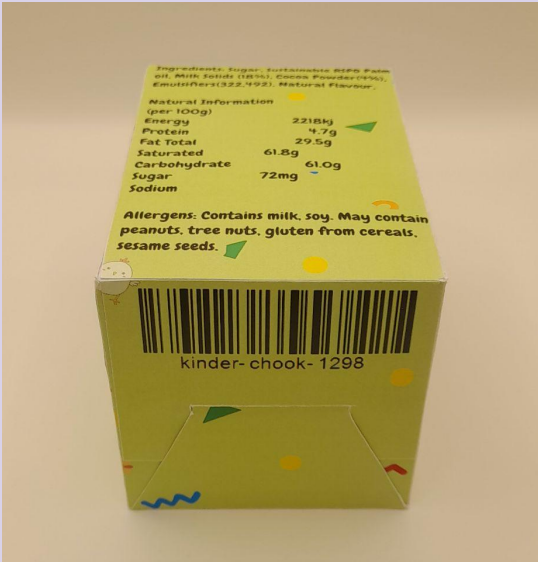
Allergens: Contains milk, soy. May contain peanuts, tree nuts, gluten from cereals, sesame seeds.



kinder-chook-1288



Packaging put together





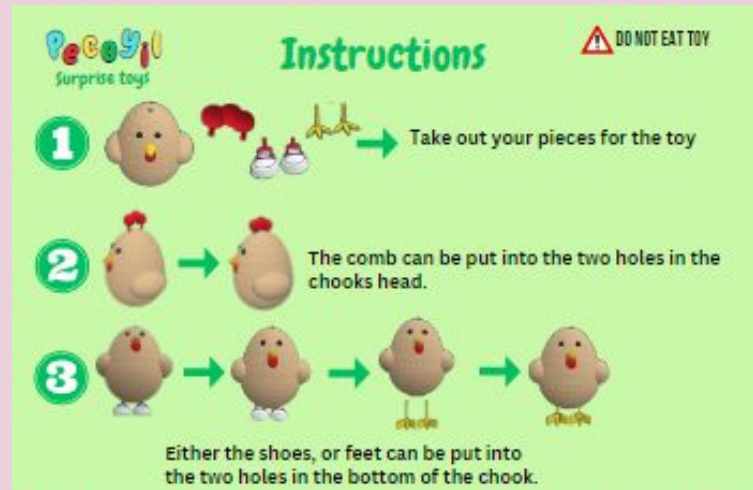
LOGO - IDEAS



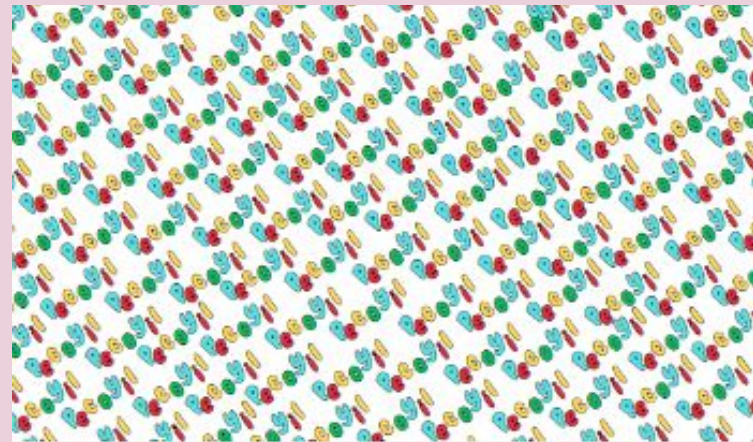
FINAL LOGO



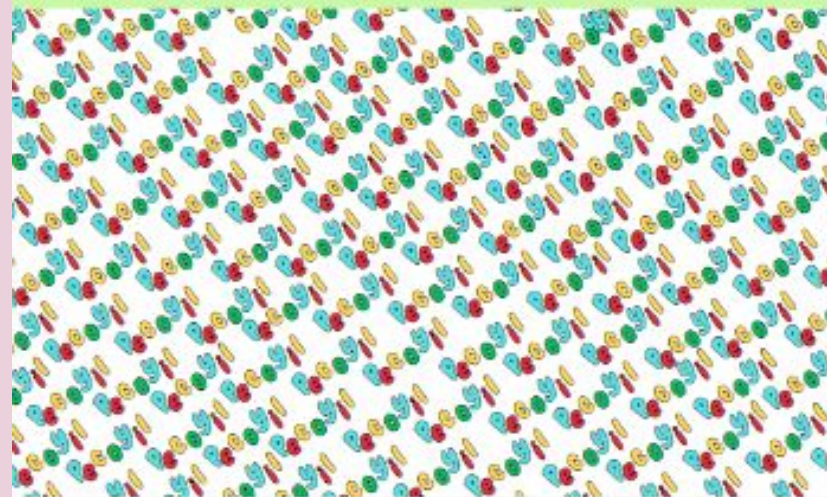
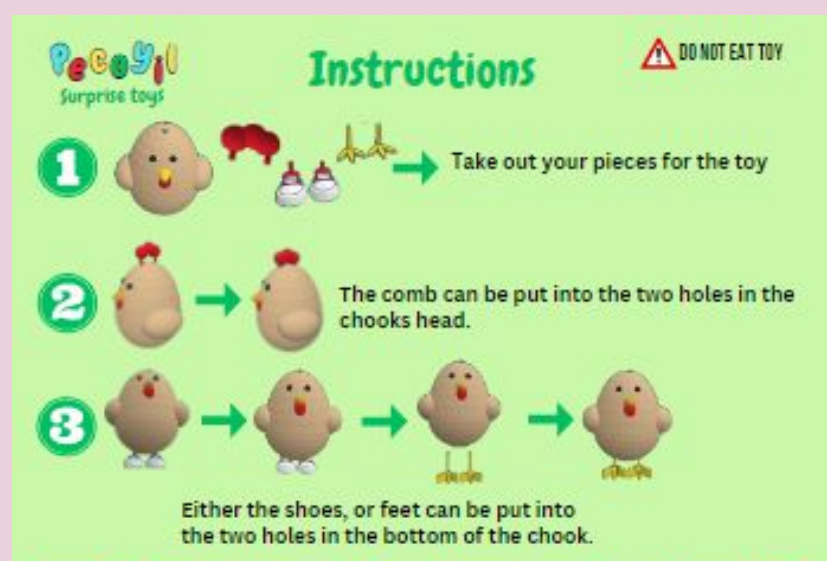
Instructions



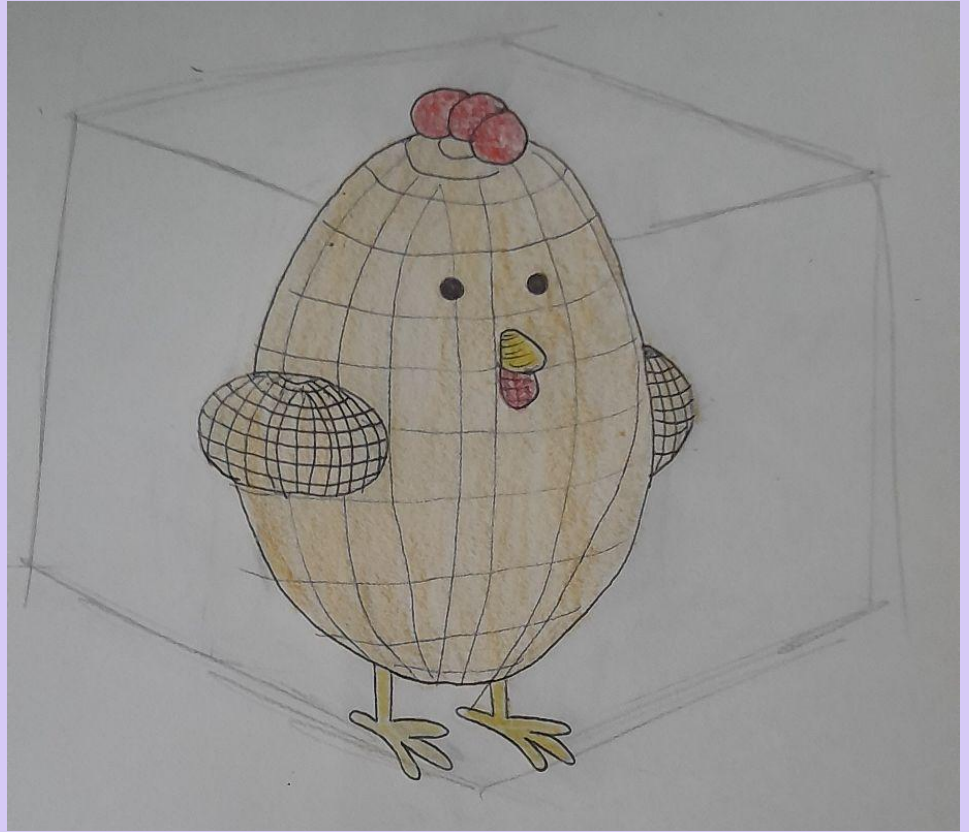
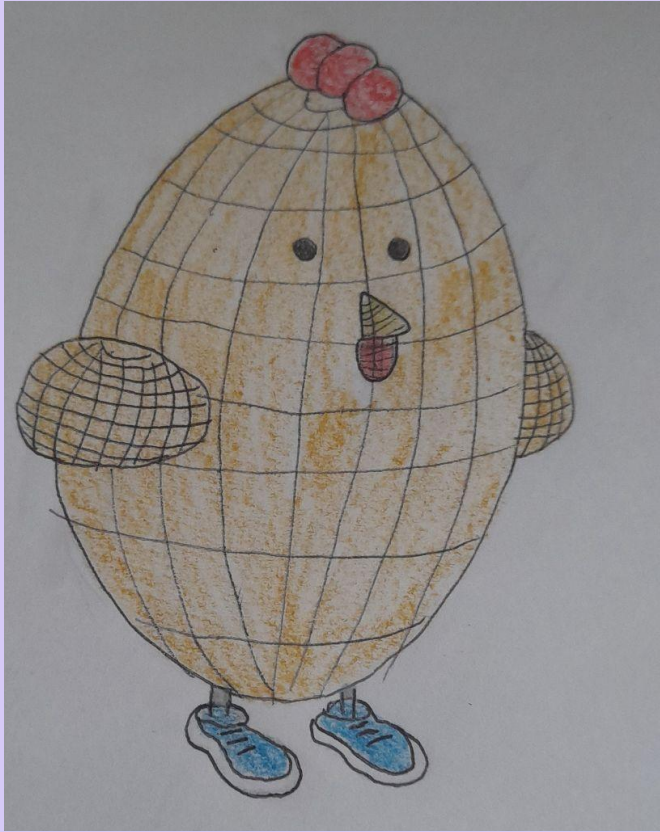
Front

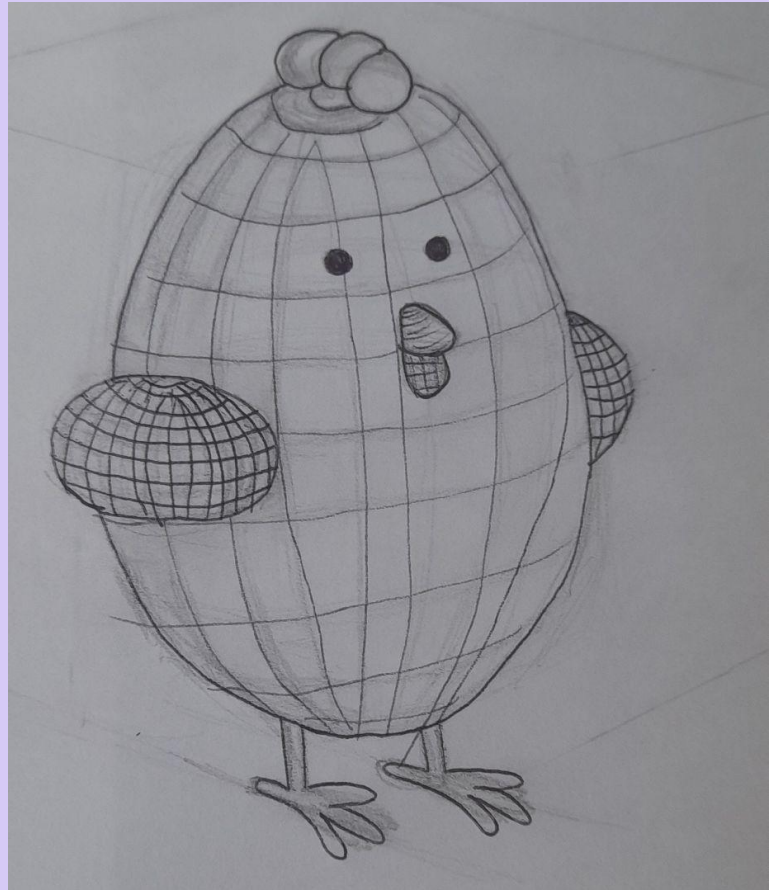


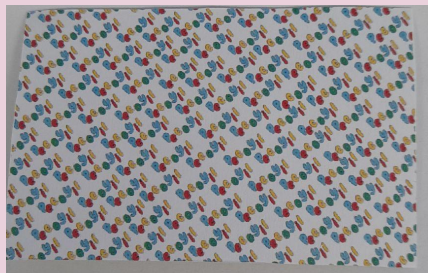
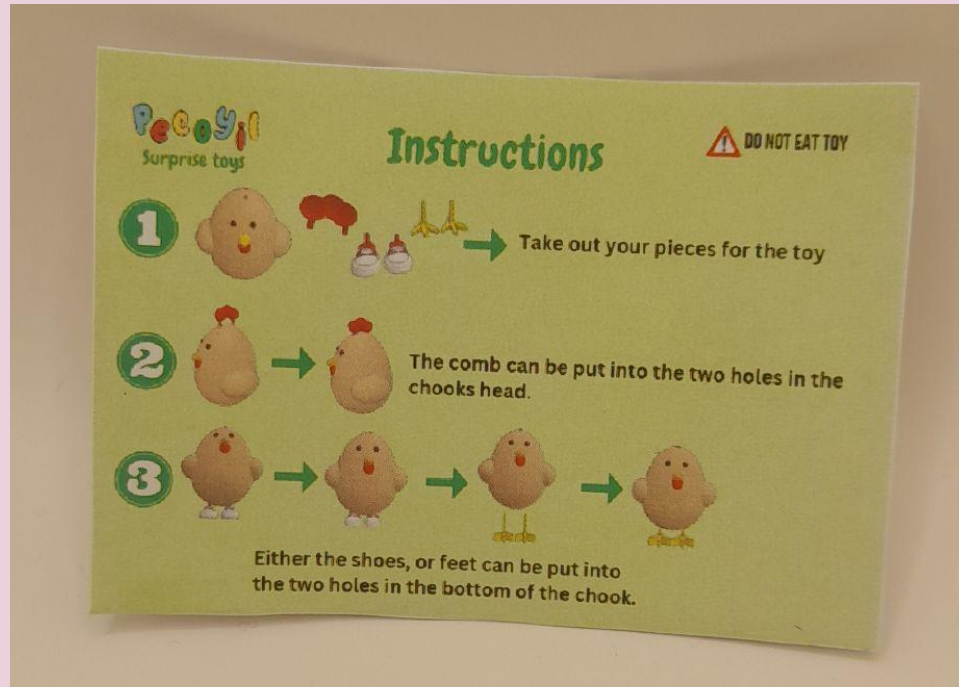
Back



Isometric drawing of toy







Photoshoot











Final product



KIWICAKES



SKU: LHSCPLM
Vendor: Homestay4u chocolates

Foil sheets wrapping for chocolates LIME GREEN

\$14.95

Colour

Green

1

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