

Miniature Pizza Fabrication

Resources and Tutorials

- ❖ Pizza: <https://youtu.be/kEAOWEdqE84>
- ❖ Pineapple and peppers <https://youtu.be/HC4clg5wpeE>
- ❖ Tomatoes <https://youtu.be/EnDb2Kwj5Dk> and https://youtu.be/rhhqD0_G9u4
- ❖ Margarita pizza <https://youtu.be/9DVAcg4dGtE>
- ❖ Bell peppers <https://youtu.be/DOzVEqMtBIY>

Pizza Scale

Standard Pizza Size

Small - 10"

Medium: 14" (1:7 scale is 2")

Large - 16" (1:8 SCALE IS 2"!)

XL - 18"

Supplies

- ❖ Oil paints:
 - Sienna
 - Burnt Sienna Light
 - Raw Umber
 - White
 - Med Orange
- ❖ Pastels
 - Pastels
 - Prismacolor Nupastel Firm pastel color sticks 24 colors
 - Alphacolor Weber Costello 12 neutral autom colors
 - Colors
 - Yellow
 - Light Yellow Orange
 - Orange
 - Orange Red
 - Yellow Ocher
 - Sienna/Raw Sienna (Light/medium reddish brown)
 - Burnt Sienna (Medium warm brown)
 - Burnt Umber (Dark cool brown)
- ❖ Tools
 - Pastel Pattel:
<https://www.amazon.com/White-Paint-Palette-Containers-Spatula/dp/B085T4FK68/>
 - Pick-up tool: <https://www.amazon.com/gp/product/B00U1Q62V4/>
 - Polyform Sculpey Artist Set: 2 Ounces Bake and Bond Bakeable Adhesive for Oven-Bake Clay, 1 Ounce Satin Glaze, 1 Ounce Gloss Glaze
<https://www.amazon.com/gp/product/B01I3MXHE2/>
 - Cricut
 - <https://www.amazon.com/gp/product/B07YXYLSWJ/>

Assembly Steps (50-hours for 20 pizzas)

- ❖ Toppings (16-hours for 20 pizzas)
 - Premake
- ❖ Dough (2-hours for 20 pizzas)
 - Mix Dough Base
 - Cut to size: I use a shot glass like a cookie cutter
 - OR... Use Crust Mold to mass-produce
- ❖ Crust (4-hours for 20 pizzas)
 - Crust variation: Add bumps and variation in the crust for the bubbles,
 - Texture Crust: Large ball, tin foil, bristle brush, toothbrush, etc...
 - Dust center of pizza with Sauce pastels: tans, dark cool brown, and white
 - Dust Crust edges with white pastel (flour), brown and black (burnt flour)
- ❖ Sauce (4-hours for 20 pizzas)
 - Pastel dusting: Dust with yellow, orange, and dark orange pastels
 - [Optional] Red Sauce Mix
 - [Optional] Pesto Sauce Mix
- ❖ Pre-bake
 - [Optional] Decide to cut slices first (texture the edges)
 - Pre-bake Sauced Crust at 250°F for 10-minutes
- ❖ Toppings (8-hours for 20 pizzas)
 - Decide if toppings go on top or under cheese
 - Apply and place
- ❖ Final Bake
 - Bake complete pizza 275°F for 15-minutes
 - Let cool for 15-minutes
- ❖ Finish (4-hours for 20 pizzas)
 - Dry brush brown scorch marks
 - Glaze
 - Sculpey satin/matte glaze on the crust
 - Sculpey gloss glaze on the center of the pizza
- ❖ Boxes (12-hours)
 - Cut (8-hours)
 - Fold and Glue (4-hours)

Sauces

Dough Base Mix Ratio

- ❖ White 85
- ❖ Tan 15
- ❖ Yellow 5(?)
- ❖ Translucent 95

Red Sauce Paint

- ❖ Liquid Sculpey
- ❖ Small amount of yellow, orange, and red oil paints

Pesto Mix

- ❖ Liquid Sculpey
- ❖ Hunter green clay pressed into thin layers
- ❖ Grass green pastels

Cheese Mix (One light-colored, one more yellow)

- ❖ Liquid Sculpey
- ❖ White and yellow clay
- ❖ Yellow and white pastels
- ❖ Optionally add either shredding white dry clay
- ❖ [Optional] Add thin rolled yellow clay cut into small strips

Toppings

Parbake Toppings

- ❖ Preheat toaster oven to 250°F
- ❖ Pre-bake 5-minutes at 250°F
- ❖ Turn off the oven when putting in the pieces in so the heating elements don't singe the tiny pieces
- ❖ Let cool completely on the counter (still on the baking sheet) for 15-minutes
- ❖ Transferring toppings into small deli cups for later use

Toppings Sign-up

- ❖ Pepperoni ([@victohenry](#))
- ❖ Red Onions ([@salamimami](#))
- ❖ Prosciutto
- ❖ Bell peppers
- ❖ Pineapple Rings
- ❖ Mushrooms (Rachel)
- ❖ Basil (Rachel)
- ❖ Jalapeno Peppers (Rachel) -; Qty 60 Pieces (8-10 per pizza)
- ❖ Black olives (Rachel) -; Qty 70 Pieces (9 to 11 per pizza)
- ❖ Feta (Rachel) - ; Qty (9 chunks per pizza)

Basil

- **Topping Scale and Quantity**
 - **Scale:** 3/16"L x 1/8"W
 - **Quantity:** 40 Pieces (2 to 7 leaves per pizza)
- **Instructions:**
 - **Mix:** Dark green, bright green, with translucent
 - **Roll out:** with pasta maker and step down to thinnest settings
 - **Shape**
 - Using the sharp wedge silicon clay tool make leaf lines
 - Use x-acto to cut out leaves
 - Use flat rubber clay shaper and large ball tool to shape into leaves
 - **Tint:** With Dark green oil paint of dry brush dark green pastel

Green bell peppers

- **Topping Scale and Quantity**
 - **Scale:** ¼"L x 1/16"W
 - **Quantity:** 80 Pieces (9 to 11 slices per pizza)
- **Instructions:**
 - **Mix:** Four different shades of green
 - Thin: Medium green with translucent
 - Thick: Vibrant yellow and green with translucent
 - Thin: Lighter and more yellow/white mixed with translucent
 - **Sandwich/Rollout**
 - Stack in gradient and flatten with a rolling pin flatten into thin sheets
 - Cut to ½ inch width
 - **Texture:**
 - Using a sharp ribbon tool or drag a wire tool to cut little grooves on the lightest side so that you can see the darker color peeking through
 - **Slice:** Thin strips about ½ inch long and 1-2 mm thick
 - **Shape:** Using clay shaper tools curl in the edges and shape into thin slices of bell pepper



Mushrooms

- **Topping Scale and Quantity**
 - **Scale:** 3/16"L x 1/8"W
 - **Quantity:** 110 Pieces (10 to 12 slices per pizza)
- **Instructions:**
 - **Extrude:** a half-cylinder of white clay, I stacked two extruding plates, one half-circle, and one smaller circle (since my set didn't include a small half circle)
 - **Tint:** Lay flat and coat top with shaved hard pastel in burnt umber
 - **Slice:** Cut into thin slices
 - **Shape:**
 - "Full" Shape: Cut corners with a small ribbon tool
 - "Cap" Shape: Cut bottom edge with thin guitar wire rake tool, flat edge
 - "Shiitake" Shape: Cut bottom corners with guitar wire tool, rounded end
 - **Tint:**
 - Dust bottom edge and corners with shaved pastel in burnt umber
 - Gently dapple irregularly shaved pastel in raw sienna



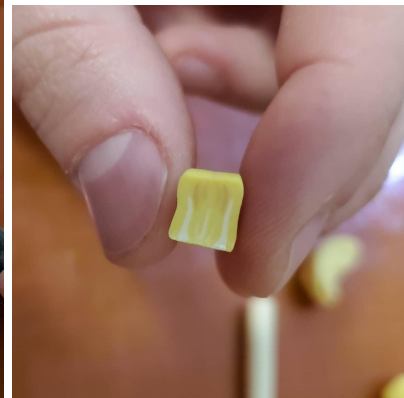
Pepperoni

- **Topping Scale and Quantity**
 - **Scale:** 1/4" Diameter
 - **Quantity:** 120 Pieces (9 to 11 slices per pizza)
- **Instructions:**
 - **Mix:** 3 Colors
 - Brownish-red
 - A light brown mixed with super Sculpey flesh tone
 - Super Sculpey flesh tone roll
 - **Roll out:** the cane until it's an eighth of an inch thick
 - **Slice:**
 - Slice into 1/16 inch patties
 - Flattened patties with a sculpting tool
 - **Texture:** with my needle cluster tool and a toothbrush
 - **Shape:** lift off of the surface with a thin knife adding curled edges



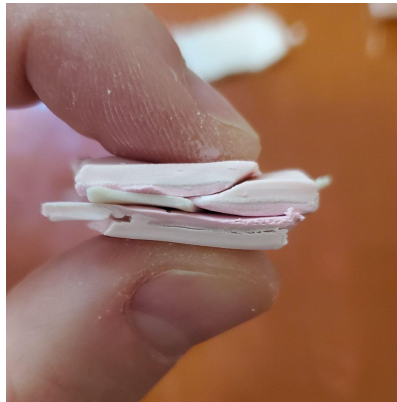
Pineapple

- **Topping Scale and Quantity**
 - **Scale:** ½" Diameter
 - **Quantity:** 25 Rings (4 to 5 half rounds, or 9 chunks per pizza)
- **Instructions:**
 - **Mix:** 4 colors (all 60:40 ratio of color to translucent)
 - Lightest yellow
 - Butter yellow
 - Golden
 - Warm tan yellow
 - **Roll:** Thin sheets using popsicle sticks along the sides of the roll for even thickness
 - **Cut:** Into lots of little rectangles
 - **Stack:** Darker colors towards one end and lighter towards what will become the center
 - **Cane:** Add these little stacks around a snake center cane
 - **Lengthen:** Roll out the cane/snake slowly, pinching/pressing to keep its shape
 - **Shrink:** Continue to roll the cane smaller to the desired size
 - **Slice:** Into thick patties
 - **Hole Punch:** With a small brass tube, punch out the center of the rings
 - **Texture:** Using a toothbrush, stipple and drag from the center out to create little creases



Prosciutto

- **Topping Scale and Quantity**
 - **Scale:** ½" L x 3/16" W
 - **Quantity:** 25 Pieces (5 slices per pizza)
- **Instructions:**
 - **Mix:** 4 Colors
 - One part dark pink translucent
 - Two parts light pink
 - two parts transparent doll base
 - one part opalescent and transparent
 - **Cane:**
 - Layer in gradient and roll-out
 - Cut at odd angles and restack (see IRL reference)
 - Make the cane in a rectangular shape ¼ inch by ½ inches
 - **Slice:**
 - Slice into thin strips
 - Press them into the cutting mat
 - Roll out paper thin with a rolling pin
 - **Texture:** With a toothbrush
 - **Shape:** Transfer to a baking sheet and curl edges and add wavy wrinkles to look like inchworms



Red Onions

- **Topping Scale and Quantity**
 - **Scale:** $\frac{1}{4}$ "L x $\frac{1}{16}$ "W
 - **Quantity:** 50 Pieces (6 is slices per pizza)
 - **Instructions:**
 - **Mix:**
 - 1-part translucent, 1-part white metallic/opalescent, $\frac{1}{8}$ -part white
 - **Sandwich/Rollout**
 - Rollout
 - Dust with dark purple pastel
 - Cut in half
 - Stack 2 layers
 - **Slice:** Thin strips about $\frac{1}{4}$ "L x $\frac{1}{16}$ "W
- Shape:** Using clay shaper tools curl in the edges and shape into thin slices



Pizza Boxes - TAKES ONE ENTIRE 10-HOUR DAY!

(YOU CLOWN, DON'T UNDERESTIMATE THIS AGAIN!)

Paper Supplies

- ❖ Kraft Cardstock Paper 65 lb / 176 gsm

Resources

- ❖ Box template: <http://allfreeprintable.com/pizza-box-template>
- ❖ Illustrator >> Cricut <https://www.youtube.com/watch?v=rGKavI7PNxg>
- ❖ Illustrator dashed line <https://www.youtube.com/watch?v=IKQtcITeHVc>
- ❖ Cricut drivers
<https://help.cricut.com/hc/en-us/articles/360009504933-How-do-I-install-USB-drivers-for-my-Cricut-Explore-or-Maker-machine->
- ❖ Cricut "Print then Cut" Hack <https://www.youtube.com/watch?v=TCEaR5CaxF8>
- ❖ Cricut scoring: <https://www.youtube.com/watch?v=usk87AmwkJc>

Steps

1. Cricut Setup
 - a. Plug-in power and USB to connect Cricut to the computer
 - b. Make sure there is 14" clearance on either side of Cricut for the sheet to travel
 - c. Turn on
 - d. Check tools are readily available: Cutting blade tool, Scoring tool (not rotary), spatula
 - e. Download/Install/Update Cricut Design Space
 - f. Login
 - g. Setup Machine "Maker"
2. Calibrate Cricut
 - a. Menu > Calibration > Print the Cut Test
 - b. Follow onscreen instructions
3. Print Graphics via Illustrator
 - a. Open 2Inch_Pizza_box_template v04.ai
 - b. Hide all layers, Show layer "Print Labels"
 - c. Print Test sheet on white paper to check margins
 - d. Using scissors clip the corner registration marks
4. Tape off registration marks
 - a. Open Project "2" Pizza Boxes v04"
 - b. Hide box design so only registration squares and edge are visible
 - c. Tape off cutting mat with blue tape around edges
 - d. Cut registration marks and remove excess tape
5. Test Scoring/Cutting
 - a. Install scoring stylus into the machine and the cutting blade
 - b. Set Base Material: Cardstock - Light Cardstock 65 lb (176 gsm)
 - c. Edit Tools: Use Scoring Stylus
 - d. Pressure: Light

Converting Illustrator AI File to Cricut SVG

<https://heyletsmakestuff.com/svg-illustrator/>

Joining points

Make sure all lines join at touching corners

- Average & Join: Select connection points (Alt+Ctrl+J, Ctrl+J)

Creating Unify Paths for Cut, Score, and Registration

1. Hide All but Cut or Score Lines
2. Select Visible Lines
3. Copy > Paste in Place in a Layer titled "Unified"
4. [Optional] Unit: Window > Pathfinder (Shape Mode: Unite)(Ctrl+A, Shift+ctrl+F9)
5. Compound Path: Object > Compound Path > Make (Ctrl+8)
 - a. Small Cuts first
 - b. Then ALL cut lines (testing to see if this cuts small things first)
6. Rename <Compound Path> to "Cut" "Score" or "Registration Cut"

Export SVG .. Importing into Cricut Design Space

<https://jennifermaker.com/cricut-scoring-tools-tips/>

1. Save your file first
2. Save As... SVG (*.SVG)
3. Use default settings
 - a. Text will automatically convert to outline
4. Delete All non-Unified layers
5. Rearrange layers in following order:
 - a. Registration Cut
 - b. Registration Marks
 - c. Score
 - d. Cut
6. Save
7. Open Cricut Design Space
 - a. New Project
 - b. Upload (Bottom Left icon)
 - c. Upload Image
 - d. Navigate to the SVG File and select
 - e. Save
 - f. Then select the uploaded from Recently Uploaded Images
 - g. "Insert Images"
 - h. Change all materials to White
 - i. Change Score lines that came in as Cut to Score
 - j. Select all layers and Attach

Cricut Notes on Printing/Cutting/Scoring from Illustrator

- ❖ If using scoring wheel: Double score lines + Use “more pressure” to get best score lines on thick paper
- ❖ Weird notes that might make sense later
 - Direct select corner of the clipping mask
 - Select the corner
 - Delete (it will auto-select...)
 - Delete Again
 - Select all
 - Clipping mask -> Release