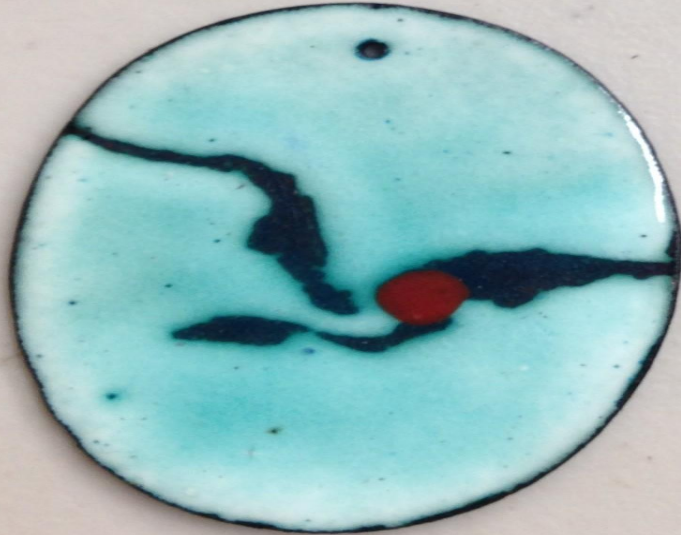
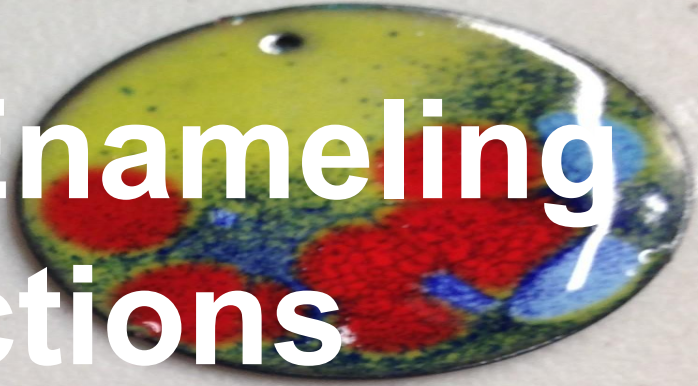
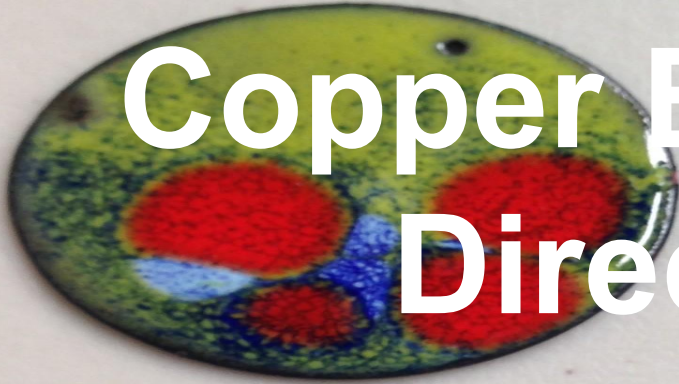
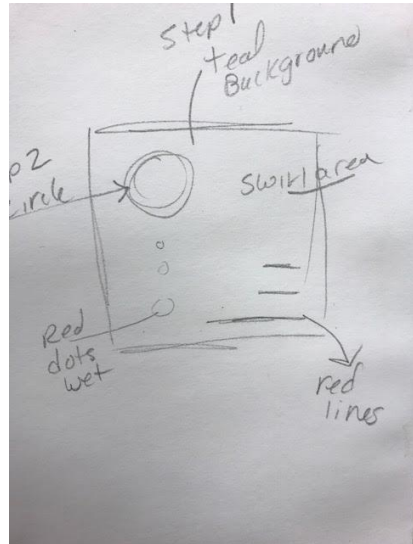


# Copper Enameling Directions



# Step One: Enameling Preparing the Metal / Planning the Design

- Create three sketches of your trinket shape and select what techniques you will use. Here is an example of a design idea from start to finish



# Step Two: Enameling Preparing the Metal

- Get dressed apron, gloves, mask & glasses
- Clean copper with “Penny Brite” a clean surface removes any oils on the metal that would cause the enamel not to adhere properly.
- Don't touch surface with finger



# Step Three: Enameling Area Set Up

- Clean your work surface so it's free of debris from any past projects
- Place newspaper over workspace
- Have sifters and enamels nearby
- Have a good dust mask ready
- Put on glasses
- Know what color you will lay down first.  
You can only use one color at a time.
- Avoid dark colors as your base color- only because other dark colors won't show up and light colors will not be as brilliant



# Step Four: Applying Powder the Glass

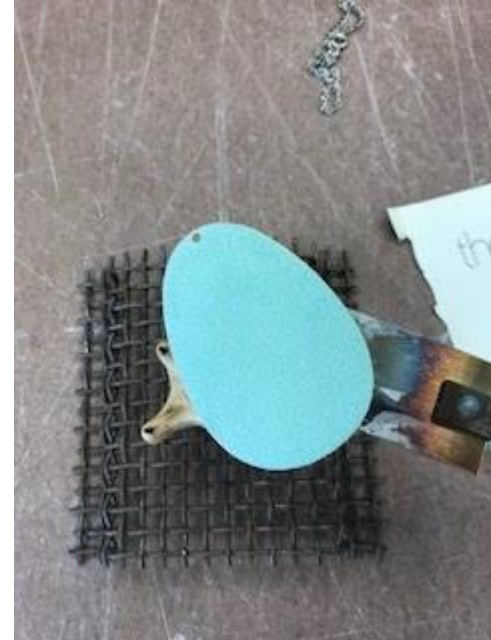
- Apply Glue
- Your first/base color will be a solid coat on one color.
- Sift over old glossy magazine pages. ( allows powder to slide off)
- Fold the pages that caught the enamels, to form a funnel-like spout then pour the enamels back into its original container
- NEVER MIX COLOR POWDERS
- Let glue dry completely under a heat lamp before firing.





# Step Five: Preparing to Heat

- **Preheat kiln. Be sure area is set up. You will need a spatula, cooling pad, heat gloves.**
- Set up a **heat-proof area outside** the kiln so you can place the mesh rack and trivet onto a safe surface when removing from the kiln (everything will be very hot)
- Place a bowl of **cold water** and a fire extinguisher near the kiln for safety in the event of an accident



# Step Six: Enameling Ready to Heat

- Place the trinket on a folded mesh screen.
- Place spatula under the mesh then lift the screen and trivet.
- Place the firing rack into the kiln on the kiln shelf and close the kiln door, doing your best to not slam the door so you don't disturb the enamels



# Firing

There are **4 stages** that enamel will progress through when heated: **sugar**, **orange peel**, **full fuse** and **over fired**. These words describe what the enamel looks like at each stage:



## 1. Sugar

Sugar looks like fine sugar



## 2. Orange Peel

Orange peel looks just like an orange peel--glossy with bumps



## 3. Full Fuse

Full fuse is when the surface is smooth and shiny



## 4. Over Fired

Over fired is when you start to see pits in the surface, black spots and sometimes the edges start creeping and/or changing color.



# Step Seven: Enameling Removing From Heat

- Once the piece is fired as you would like, place the firing fork under the trivet or use a spatula to remove the kiln shelf.
- Place the trivet or kiln shelf onto a heatproof cooling surface next to the kiln.
- Allow all to cool to room temperature before adding new powder designs.



# Step Eight: Re-applying Powder the Glass

- Your first/base of sifted color will be a solid coat on one color will be done.
- Add glue and apply whatever other technique you have chosen.
- You only get one chance to take your time and carefully plan out what you will do.
- Once cool remove last fire scale and polish back with penny bright

