

MATERIALS for Amanda Denison's workshop – Enamel and Rust.

You will need some metal to work on plus some liquid enamel in white.

Metal to work on:

- Ideally use **pre-enamelled steel** cut into tiles (or other shapes, as required).

Available in USA from *Enamel Warehouse* (they describe it as *THIN STEEL PLATE BLACK BOARD WHITE BOARD 28 gauge with ground coat and white on face side, ground coat only on back side*).

And/or mild steel

(N.B. if using unenamelled/bare steel i.e. mild steel, you will need to buy a liquid enamel steel ground coat/grip coat to use prior to using your liquid enamel)

- **mild steel sheet** cut into tiles (you need a low-carbon mild steel)
- or
- **steel pizza pan** from the dime store to cut up.

LIQUID ENAMEL (aka Wet Process Enamel or Industrial Enamel)

Ground coat (for use with uncoated mild steel or pizza pan steel)

- RM 27 Metal Frit Ground Coat for Steel (available from Enamel-Warehouse USA)
- Wg Ball (UK maker of enamels)

(also usable is Thompson Enamel's GC16 (Cobalt blue) – Ground Coat for Enameling Iron, however this fires to a pale grey whereas the other two fire dark grey).

WHITE Liquid enamel

- Thompson Enamel 533 White
- Wg Ball Wet Process Enamel (Powder) - White 12541

*(I tend to buy enamel pre-mixed as a liquid but it will be **cheaper buying it as powder**. The codes for the liquid versions are: Wet Process Enamel - Opaque White 10099 (this is the UK code, it may be coded differently in USA) Wet Process Enamel - Steel Groundcoat 10543)*

(If you want to experiment with colour as well, both Thompson Enamel and Wg Ball have a good range of Coloured Liquid Enamels – these are not required for this workshop but can be used for it if you want to experiment further).

ABRASIVES to degrade the surface

I recommend **Foam backed diamond hand polishing pads** – widely available from many suppliers including Amazon.com and also available from glass studios. The finest grade I use is 400, plus 200, 100 (or 120) 50 (or 60). You can buy sets of four pads or just buy one medium grade pad eg 200 to try out the technique.

You need something like this: https://www.amazon.com/Electroplated-Diamond-Polishing-Granite-Ceramic/dp/B071YD4WFF/ref=sr_1_21?dchild=1&keywords=diamond+hand+polishing+pads&qid=1617707945&sr=8-21https://www.amazon.com/Toolocity-DHPSET-Diamond-Polishing-Stone/dp/B00MCL4NHG/ref=sr_1_6?crid=2NS7OYBVB7LNG&dchild=1&keywords=diamond+hand+polishing+pads&qid=1617707521&srefix=diamond+hand+polishing+pads%2Caps%2C235&sr=8-6

You can also buy flexible diamond sanding strips. Something like this:

https://www.amazon.com/BSRTTOOL-Diamond-Sandpaper-Polishing-Abrasive/dp/B09P4Y11KS/ref=sr_1_19?crid=3VH7ZSLHJPPS1&keywords=diamond%2Bgrit%2Bstrips&qid=1648988881&srefix=diamond%2Bgrit%2Bstrips%2B%2Caps%2C117&sr=8-19&th=1

Other abrasives you can use are Alundum stones, carborundum stones, abrasive sanding papers.

Mark making

- A collection of implements with which to make marks – needles, twigs and thorns, combs, pastry wheels, stencils,. Anything you have. It's about experimenting.

Paintbrushes to apply enamel and clean up the surface.-

I use synthetic rather than bristle but either is fine.

One or **two fan shaped artists brushes to clean up the marks made** – this sort of thing.:

[https://www.amazon.com/WODE-Brushes-Acrylic-Watercolor-Painting/dp/B07LF3YSZM/ref=sr_1_29_sspa?](https://www.amazon.com/WODE-Brushes-Acrylic-Watercolor-Painting/dp/B07LF3YSZM/ref=sr_1_29_sspa?dchild=1&keywords=fan+shaped+artists+brush&qid=1617708571&sr=8-29-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFaNkdES0RCU0U3RjkmZW5jcnlwdGVkSWQ9QTA2NjcwMzMzMyTkIDSUE0VzNOVUZ0JmVuY3J5cHRIZEFkSWQ9QTA2ODQzNjgySkEyMDdRWjYzM0kyJndpZGdldE5hbWU9c3BfbXRmJmFjdGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)

[dchild=1&keywords=fan+shaped+artists+brush&qid=1617708571&sr=8-29-](https://www.amazon.com/WODE-Brushes-Acrylic-Watercolor-Painting/dp/B07LF3YSZM/ref=sr_1_29_sspa?dchild=1&keywords=fan+shaped+artists+brush&qid=1617708571&sr=8-29-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFaNkdES0RCU0U3RjkmZW5jcnlwdGVkSWQ9QTA2NjcwMzMzMyTkIDSUE0VzNOVUZ0JmVuY3J5cHRIZEFkSWQ9QTA2ODQzNjgySkEyMDdRWjYzM0kyJndpZGdldE5hbWU9c3BfbXRmJmFjdGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)

[spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFaNkdES0RCU0U3RjkmZW5jcnlwdGVkSWQ9QTA2NjcwMzMzMyTkIDSUE0VzNOVUZ0JmVuY3J5cHRIZEFkSWQ9QTA2ODQzNjgySkEyMDdRWjYzM0kyJndpZGdldE5hbWU9c3BfbXRmJmFjdGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==](https://www.amazon.com/WODE-Brushes-Acrylic-Watercolor-Painting/dp/B07LF3YSZM/ref=sr_1_29_sspa?dchild=1&keywords=fan+shaped+artists+brush&qid=1617708571&sr=8-29-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFaNkdES0RCU0U3RjkmZW5jcnlwdGVkSWQ9QTA2NjcwMzMzMyTkIDSUE0VzNOVUZ0JmVuY3J5cHRIZEFkSWQ9QTA2ODQzNjgySkEyMDdRWjYzM0kyJndpZGdldE5hbWU9c3BfbXRmJmFjdGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)

A couple of **flat broad utility brushes for applying enamel**, the sort used for gesso or varnishing like these

[https://www.amazon.com/US-Art-Supply-Synthetic-Varnishes/dp/B01MG5HEZX/ref=sr_1_37?](https://www.amazon.com/US-Art-Supply-Synthetic-Varnishes/dp/B01MG5HEZX/ref=sr_1_37?dchild=1&keywords=soft+large+artists+paint+brushes&qid=1617708379&sr=8-37)

[dchild=1&keywords=soft+large+artists+paint+brushes&qid=1617708379&sr=8-37](https://www.amazon.com/US-Art-Supply-Synthetic-Varnishes/dp/B01MG5HEZX/ref=sr_1_37?dchild=1&keywords=soft+large+artists+paint+brushes&qid=1617708379&sr=8-37)

Firing

- Participants will need a kiln or a torch (for torch-firing).

Rusting

Table salt

White (clear) vinegar.

If you want to speed up the process you could also get some hydrogen peroxide (3-8% concentration, whatever you can get)

General

- cheap plastic kitchen sieves (at least 4inches in diameter). The sort used to strain vegetables when cooking. Most have a quite wide mesh. I get mine from the Dime Store.
- Plastic bowl to mix enamels, preferably with a lid
- White paper or clean glass or ceramic tile to work on.

Safety

- Mask and goggles. Gloves to wear if cutting steel (I use gardening gloves)

SUPPLIERS

Pre-enamelled steel:

Enamel-Warehouse <https://enamel-warehouse.com/> (also sell Thompson enamels)

Thompson Enamels:

<https://www.e-namels.com/> (also stock Wg Ball enamels)

<https://thompsonenamel.com/shop/>

<https://www.riogrande.com/>

<https://enamel-warehouse.com/>

Wg Ball enamels

<https://www.e-namels.com/> (also stock Thompson enamels)

<https://www.allcraftusa.com/>

