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Plique a Jour with Gemstones Workshop

Pocosin Arts

MATERIALS & SUPPLIES LIST

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Must-Have Supplies:

- 4 ft. Plique a jour flat wire in fine silver:
<https://www.enamelartsupply.com/pliquejour-supplies/fine-silver-wire-15mm-x-5mm> or make your own by rolling 18 ga. fine silver in rolling mill until 1.5 mm wide (will be about 24 ga. thick at that point)
- 2 ft. Eutectic solder
<https://www.enamelartsupply.com/pliquejour-supplies/eutectic-solder-22-ga-round>
- 2 inches .999 fine silver tubing in 2 sizes:
2.34mm OD - <https://www.riogrande.com/product/999-Fine-Silver-234mm-Seamless-Tubing-Hard-12-Length/100956>
2.0mm OD - <https://www.riogrande.com/product/999-Fine-Silver-201mm-Seamless-Tubing-Hard-12-Length/100957>
- CZ's or diamonds, 6 stones @ 1.75mm and 6 stones @ 2.0mm diameter
<https://bit.ly/1-75mmCZ>
- Enamels, 4 to 5 colors that go together well. I will be using Hirosawa and Nihon Shippo leaded enamels:
S-4AA Very Pale Green
S-3A Pale Blue
140 Blue
S-14A Violet
S-6 Red Purple
G110 Flux
Purchase from: <https://www.enamelartsupply.com>
- Tracing paper, 1 or 2 sheets (use thin inexpensive kind (made of cotton rag or wood pulp). DO NOT use pricey drafting vellum (made of plastic)! <https://www.dickblick.com/items/blick-studio-tracing-paper-pad-9-x-12-50-sheets/>
- Block of 1 1/2 " thick x 4" x 6" Owens-Corning Foamular foam building insulation (comes in 8 ft. by 4 ft. sheets at building supply, cut to size with putty knife w/ sharpened side edge):
<https://www.homedepot.com/p/Owens-Corning-FOAMULAR-NGX-1-in-x-2-ft-x-2-ft-R-5-Project-Panel-XPS-Rigid-Foam-Board-Insulation-9WE/315401957>
- 1 oz. jello shot cups w/ lids (Amazon), or other small (about 1 oz.) cups or jars w/ lids https://www.amazon.com/gp/product/B001C8ZTJG/ref=oh_aui_search_detailpage?ie=UTF8&psc=1

SUPPLY LIST CONTINUES ON NEXT PAGE:

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Please note: the following supplies and tools would be good to have for this project. Some are more essential than others, but in most cases something similar could be substituted.

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For bending wires:

- Metal straight pins (like for sewing) <https://amzn.to/3Dd3y99>
- Elmer's glue (original, not School Glue) diluted 50/50 with water
- Popsicle stick or toothpick to stir glue
- Inexpensive small brush to apply glue
- AA stainless steel tweezers
<https://www.riogrande.com/product/blue-heron-stainless-steel-precision-aa-pattern-tweezers/115018>
- Chain nose pliers
<https://www.riogrande.com/product/rio-grande-german-chain-nose-pliers/111074>
- Half-round pliers
<https://www.riogrande.com/product/rio-grande-german-flat-and-round-nose-forming-pliers/111190>
- Flat jaw pliers
<https://www.riogrande.com/product/rio-grande-german-slimline-flat-nose-pliers/111137>
- Needle-nose pliers
<https://www.riogrande.com/product/rio-grande-german-slimline-round-nose-pliers/111141>
- Micro super flush cutter for cutting wires, get just one of these choices. The first (more expensive one) makes this way easier, almost no filing of wires as you build your framework:
 1. <https://www.riogrande.com/product/swanstrom-super-flush-cutters/111305> or
 2. <https://www.riogrande.com/product/xuron-lx-micro-shear-flush-cutters-without-retainer/111066>
- Set of assorted #4 Swiss cut (#5 German cut) needle files, for touching up wirework after soldering)
<https://www.riogrande.com/product/Friedrich-Dick-Needle-File-Set-Cut-5-Set-of-6/114796>
- 6" Half round hand file, very fine #4 Swiss cut or #5 German cut <https://www.riogrande.com/product/Friedrich-Dick-Half-Round-Hand-File-Cut-5/114711>
- Bench pin with clamp to attach it to your work table
<https://www.riogrande.com/product/v-slot-bench-pin-and-clamp/110010>

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For Soldering:

- 1 piece 2" by 2" by 20 ga. 304 2B stainless steel sheet (**best to have this cut to size, it is time consuming to cut out!**) Page | 3
<https://www.enamelartsupply.com/pliquejour-supplies/stainless-steel-sheet-304-2-by-2-by-20-ga>
- 24 ga. stainless steel binding wire, 2 ft. <https://www.riogrande.com/product/stainless-steel-round-wire-for-handling-and-binding-24-ga-8-oz-spool/503074>
- Soldering tweezers that come to a sharp point, don't use same tweezers for bending framework wire
<https://www.riogrande.com/product/blue-heron-stainless-steel-precision-aa-pattern-tweezers/115018>
- Solderite soldering pad
<https://www.riogrande.com/product/Solderite-Pad-Hard-6-x-6-x-12/502063>
- Solder pick
<https://www.riogrande.com/product/tungsten-soldering-pick-for-platinum/503021>
- French shear or sharp scissor to cut solder chips
<https://www.riogrande.com/product/french-straight-tip-shop-shears/114227>
- Flux brush: <https://www.dickblick.com/items/blick-bamboo-brush-size-2/>
- Soldering area w/ fire-proof surface (metal table, tile, or gator board from hardware store)
- Torch suitable for jewelry work: I recommend Smith acetylene/air or Smith propane/air
- Pickle: <https://www.riogrande.com/product/rio-pickle-for-non-ferrous-metals/5010233gp>
- Pickle pot: <https://amzn.to/3Bik476>
- Handy Flux white paste flux: <https://bit.ly/3Btmq3r>
- Borax powder: OPTIONAL <https://amzn.to/2YkwfCp>
- Baking soda (FROM GROCERY STORE)
- Bowl for water/baking soda rinse for pickle
- Access to sink

For Cleanup and Forming:

- Needle file set (see For bending Wires)
- Diamond burs (optional, for cleanup and removing pinholes):
 - 1mm round: <https://www.riogrande.com/product/Diamond-Ball-Bur-11mm/343023>
 - Inverted cone bur: <https://www.riogrande.com/product/diamond-inverted-cone-bur-2-7mm/343021>
- 2 Steel bench blocks <https://bit.ly/Rio-Grande-Bench-Block>
OR can use small smooth and very flat blocks of hardwood instead
- Plastic or rawhide mallet
<https://www.riogrande.com/product/Yellow-Plastic-Head-Mallet-6-oz/112229>

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For Enameling:

- New, high quality 00 or 000 watercolor brush just need one (must hold fine point at tip)
 - Less expensive: <https://www.dickblick.com/items/blick-masterstroke-finest-red-sable-brush-round-size-00-short-handle/>
 - Higher quality: <https://www.enamelartsupply.com/other-tools-and-supplies/kolinsky-sable-brush-1-ljyn2>
- OPTIONAL: Enamel applicator <https://bit.ly/pliqueajourapplicator>
- Glass (4" tall by 3" wide) or wide mouth jar (like jam jar) for washing brush
- Glass stirring rod:
<https://www.enamelartsupply.com/other-tools-and-supplies/glass-stir-rod-4>
- Plastic measuring cups: <https://amzn.to/2YknUyB>
- KlyrFyre <https://www.riogrande.com/product/klyr-fire-holding-agent-water-based/119111>
- Distilled water (laundry section of grocery store)
- Paper towels
- Enameling kiln
 - kiln must have temperature controller that can set temp. precisely to 1450 F
 - should be vented to outside
- Firing rack <https://www.enamelartsupply.com/other-tools-and-supplies/firing-rack-s2edr>
- Trivet <https://www.riogrande.com/product/Thompson-2-Three-Point-Trivet-TPT-2/119307>
- Firing fork <https://enamel-warehouse.com/product/firing-fork/>
- Heat-proof gloves <https://www.riogrande.com/product/radnor-heat-resistant-gloves/350050gp>
- Kiln safety glasses for eye protection <https://www.enamelartsupply.com/kiln-safety-glasses>

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- Heat proof surface around kiln (metal table, tile, or gator board from hardware store)
- Timer that counts down by seconds, not by minutes (can use timer app on your phone)

For Finishing:

- Abrasives for cleaning, smoothing wires after enameling, here are some options (**choose either abrasives for the flex shaft or else abrasives for hand sanding**):
 - Flex shaft – Aluminum oxide abrasive bands, size ½" x ½", with drum arbor mandrel: 320 & 600 grit <https://www.enamelartsupply.com/abrasives/aluminum-oxide-sanding-kits>
OR, if above not available, Mounted Sandpaper Roll, 400 & 600 grit: https://bit.ly/Rio-Grande_Sandpaper-Roll
 - Hand finish – Sanding sticks or sponges with finer grits (400 & 600 grit aluminum oxide or diamond abrasive preferred) <https://www.enamelartsupply.com/abrasives/>

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micro-finishing-pads and also 400 grit

wet/dry abrasive paper or pad: <https://bit.ly/3pJkSyT>

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- Flex shaft or hand finish (also for stone setting) or tube cutting jig and jewelers ~~saw~~ ^{Page | 5}
- Glass Brush: <https://www.enamelartsupply.com/other-tools-and-supplies/fiberglass-brush>
- Nitrile exam gloves: <https://amzn.to/3m6lVo2>
- Basin or large bowl for glass brushing and stoning