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Virtual Fused Chains

Instructor: Leslie Perrino

This class will introduce you to the joys of fusing fine silver to make a wide variety of chains, and jewelry. Please email me with any questions: artnun@jps.net

Materials needed

Silver

- Fine silver 20 gauge, get 1/2 ounce, enough for 2 bracelets maybe a short necklace, 1 ounce if you want to keep going after the workshop <https://www.riogrande.com/product/999-Fine-Silver-Round-Wire-16-Ga-Dead-Soft/10531>
- Fine silver 16 gauge, get 3 feet, for the workshop or 6 feet if you want to do more after the workshop. <https://www.riogrande.com/product/999-Fine-Silver-Round-Wire-20-Ga-Dead-Soft/105320>
- jump rings Argentium <https://www.riogrande.com/product/Argentium-Silver-4mm-Round-Jump-Ring/696920>
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TOOLS

Pliers

- Round nose: <https://www.riogrande.com/product/round-nose-pliers/111913>
- Flat nose: <https://www.riogrande.com/product/slimline-flat-nose-pliers/111901>
- Chain nose: <https://www.riogrande.com/product/chain-nose-pliers/111911> **Cutting tools**
- Flush wire cutters: <https://www.riogrande.com/product/xuron-light-duty-micro-shear-flush-cutters-without-retainer-17011/111274>
- Shears: <https://www.riogrande.com/product/soft-metal-shears/111232>
- Jeweler's saw: <https://www.riogrande.com/product/jewelers-adjustable-4-saw-frame/110132>
- Saw blades, size 3/0. if you have other sizes they will probably work: <https://www.riogrande.com/product/Laser-Gold-30-Saw-Blade-Pkg12/110305>

Dowel rods

You need a 1/2 inch, wooden dowel rod which you can get from you local hardware or craft store. but having a variety gives you more options such as this kit from Amazon https://smile.amazon.com/Wooden-Mandrel-Wire-Forming-6pcs/dp/B008L4VLP/ ref=sr_1_49?crd=1DOFR2JUJAQDT&dchild=1&keywords=jump+ring+mandrels+for+jewelry+making&qid=1602436752&sprefix=jump+ring+mandrels%2Caps%2C161&sr=8-49

Steel Bench block (two options, you only need one)

- From Rio: <https://www.riogrande.com/product/Steel-Bench-Block-2-x-2-x-34/112560>
- From Amazon: https://smile.amazon.com/Steel-Bench-Block-2-5-Square/dp/B01DYEDLC2/ ref=sr_1_28?crd=2EV58I93PVI4Y&dchild=1&keywords=steel+bench+block+for+jewelry+making&qid=1589497351&sprefix=steel+bench+block%2Caps%2C158&sr=8-28

Hammer

A basic household claw hammer is fine, but if you are buying one, get a ball pein hammer:

https://www.harborfreight.com/16-oz-ball-pein-hammer-69010.html? br_psugg_q=ball+peen+hammer

Swivel vice

You may not have to buy this, check your basement or garage! You can use any regular vice that may be in your home. If you need to buy, here are three good choices:

- Tabletop swivel vice: <https://www.riogrande.com/product/tabletop-swivel-vice/113147>
- Bench clamp swivel vise: https://smile.amazon.com/MaxWorks-80743-Universal-Electronics-Inspection/dp/B074NDNWNH/ref=sr_1_9?crd=2DM5RUXZLOHJ&dchild=1&keywords=small+swivel+vise&qid=1589498839&sprefix=sma+swivel+vise%2Caps%2C182&sr=8-9
- Mini bench vice (make sure this one opens wide enough to clamp to your table!): https://smile.amazon.com/Tanjin-Jewelers-Clamps-Repair-Portable/dp/B07F67MR52/ref=sr_1_36?crd=2DM5RUXZLOHJ&dchild=1&keywords=small+swivel+vise&qid=1589498839&sprefix=sma+swivel+vise%2Caps%2C182&sr=8-36

Butane torch

We will be using a small, refillable butane torch to fuse our metal. This is a good, inexpensive one:

https://smile.amazon.com/gp/product/B08215QV64/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1

Fuel for torch (butane)

It is better to buy this at the hardware store or Walgreens (behind the counter near the cigarettes), but

you can purchase online. Get the universal fueling tip: https://www.amazon.com/Ronson-99146-Lighter-Butane-Refill/dp/B007OWQFA6/ref=zg_bs_10342348011_14?encoding=UTF8&psc=1&refRID=B97VHZ4P6M0M9PZKRWT6

Heat Protection

It is important to protect the surface of your workspace when using a torch. You can use a couple of 10x10 inch ceramic floor tiles, or an old cookie tin, old enameled or steel tray, etc. Put a rag or washcloth beneath to protect table surface.

Soldering surface

This is a specialized material that absorbs heat from the torch. You'll place this on top of your metal or ceramic surface.

- Solderite pad: <https://www.riogrande.com/product/Solderite-Pad-Hard-6-x-6-x-12/502063>

Small glass bowl for water, used for quenching hot metal

Tweezers

- Basic tweezers, can be any kind, here's an example: <https://widgetsupply.com/product/sda2-58511tw.html>
- Cross lock tweezers (super useful when fusing): <https://widgetsupply.com/product/bbc04-510tw.html>

Polishing material

- 0000 steel wool (you can grab this at the hardware store)

- polishing cloth: <https://www.riogrande.com/product/sunshine-cloth-single-pack/337039>
- optional Satin polishing cloth: <https://www.riogrande.com/product/sunshine-satin-cloth-single-pack/337086>

Basic stuff

- 6" ruler: a steel ruler is ideal but any ruler will do
- Pencil, Paper or index card
- Paper towels or rags