

Part 3. Chains (3styles) clasps and ear wires

Materials:

ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Sterling silver round wire –dead soft- 18 gauge.	10 feet
ITEM HYPERLINK: https://www.riogrande.com/product/sterling-silver-round-wire-dead-soft/100304gp	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Sterling silver round wire – half hard - 20 gauge	5 feet
ITEM HYPERLINK: https://www.riogrande.com/product/Sterling-Silver-Round-Wire-20-Ga-12-Hard/100350	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
ITEM HYPERLINK:	

When ordering metal- I specify “dead soft” or “1/2 hard” - if I know I will need to solder the metal or want to add a texture, I’ll be sure to order “dead soft”- this means the metal will arrived annealed (already heated and “soft”). I order 1/2 hard when I want to be making earring wires that I know I won’t have to solder. This saves me a little time when thinking about work hardening the wire after I have formed it.

Getting Started: Build your own jewelry studio at home.

Here is a list of some tools I recommend... you can always buy more, but you can also buy less.

You will need a small, but sturdy table to work at. This may be a table you have at home or in your garage. Pushing the table up against a wall will help with stability. If you plan to use your dining room table, I suggest getting a drop cloth style covering for your table to help protect it and make your cleanup a little easier.

ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
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Bench pin & Anvil combo	1- \$13.85
ITEM HYPERLINK:	
https://www.riogrande.com/product/bench-pin-and-anvil/110014	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Sawframe	1 - \$ 13.75
ITEM HYPERLINK:	
https://www.riogrande.com/product/german-adjustable-jewelers-3-saw-frame/110041	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Solderite pad 6" x 6"	1 - \$9.25
ITEM HYPERLINK:	
https://www.riogrande.com/product/Solderite-Pad-Soft-6-x-6-x-34/502064	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Butane Torch – this you may also be able to find at your local hardware store, there are many variations on the butane torch, so I suggest watching the mini-video at the bottom of the link below to have a little understanding of some of the differences.	1- \$55.00
ITEM HYPERLINK:	
https://www.riogrande.com/product/proxxon-microflame-butane-torch/500226	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Solder stick – you can also make your own from a bike wheel spoke, just file one end to a point.	1- \$ 4.95
ITEM HYPERLINK:	
https://www.riogrande.com/product/tungsten-soldering-pick-for-platinum/503021	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Flux- you only need to purchase one type of flux. If you have never soldered before most people begin with the paste flux (handy flux). Personally in my studio I use a liquid flux that I make myself.	\$10.95 or \$6.55
ITEM HYPERLINK:	
https://www.riogrande.com/product/rio-ready-flux/504003gp or https://www.riogrande.com/product/handy-flux-for-soldering-and-annealing/504086gp	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):

<p>Solder- hard, medium, easy solder- you will need to order each one separately. Order in: inches: 2" x 3" – for each type of solder</p>	<p>1 piece of each : hard, medium and easy solder- 2" x 3" Avg. price is about \$30.00 for all three</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/Silver-Sheet-Solder-30-Ga-Hard/101702</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Tweezers- for many purposes This collection of tweezers will allow you to hold objects while you're soldering. The copper ones are specifically for use in the acid bath(this is what will clean your metal after you heat it)</p>	<p>1 set- 11.95</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/soldering-tweezers-set-of-4/115780</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Pickle / Cleaning Solution- there are also other options, many hardware store carry Citric Acid, which works as an alternative to the commercial "pickle" you can buy from Rio. It is a bit more environmentally friendly. If you have a pool- steal a scoop the Sodium Bisulfate – this is the same solution as pickle. You will need to keep this warm when using, so I recommend buying an old crockpot (ceramic NOT METAL) or using a pyrex pot with lid and a small burner to warm it slightly- NOT BOIL.</p>	<p>1 small jar (3 lbs.)= \$11.95</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/Silver-Sheet-Solder-30-Ga-Hard/101702</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Saw blades – my favorite are 4/0</p>	<p>5 packs at least of 4/0 saw blades – 16.50</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/herkules-white-label-4-0-saw-blade/110032 For a sample pack: https://www.riogrande.com/product/rio-german-saw-blade-sampler-pack/112214</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Pliers & Cutters- you want to have at least three basic pliers- round nose, flat nose, chain nose and your snips or cutters. It is important that your cutters have clean edges, any dents will be transferred to your metal. The two options below are the extremes.. you can also buy individual pliers. I love my lindstrom flush cutters, but they are a bit of an investment.</p>	<p>\$30-\$120.00 –and in between, your choice</p>

<p>If you're headed to your local hardware store, most have pliers, you can buy them there- just be sure to get pliers with smooth jaws (no teeth- that will leave marks on your metal)</p>	
<p>ITEM HYPERLINK:</p>	
<p>The very basic set: https://www.riogrande.com/product/economy-four-piece-pliers-and-cutters-set/111909</p> <p>The super delux set: https://www.riogrande.com/product/lindstrom-rx-pliers-and-cutters-set/111057</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Parallel pliers – I LOVE these.. if you think you want to continue making jewelry, these are a life saver. I use them almost daily especially when I'm doing any type of wire work.</p> <p>There are also variations on these with more expensive brands.</p>	<p>1- \$14.79</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/flat-nose-parallel-action-pliers/111321</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Steel ruler- I strongly suggest steel, as plastic doesn't hold up. I also prefer to have an inches and mm combo ruler. If the ruler is steel I can use my other tools against it and not worry about scratching or removing surface area that may later change my measurements.</p>	<p>1- 2.75</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/steel-ruler-with-conversion-chart/116086</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Scribe & Burnisher Combo- I recommend the combo.. you can also buy the scribe and the burnisher separately if you like. Both are needed.</p>	<p>1- 27.50</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/friedrich-dick-scriber-and-burnisher/113929</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Dividers- these are a great tool for giving you precise measurements, scribing long equal distance lines, ect.. it isn't absolutely necessary for these workshops, but it is a very handy tool.</p>	<p>1 \$12.50 (optional)</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/german-slim-leg-divider/116329</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Sandpaper – wet/dry- you will want to get 2 sheets of each grit to begin. You can of course buy more, but if you are going to your local hardware store they will have this.</p> <p>Rio sells them in packs of 10 sheets.</p> <p>Grits- 320. 400. 600, 800- 2 sheet each.</p>	<p>Minimum 2 sheets of each grit</p>

<p>In addition to the sandpaper- pick up a paint stirring stick, one for each grit. We will use these to make sanding sticks. You will also want to get a dowel rod that is about ¾" wide/ 11-12" long- this will become your round sanding stick</p>	
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/3m-silicon-carbide-wetordry-emery-paper/337338</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Half Round File #3 cut – get a bottle of wine with a cork and use the cork as a handle... drink the wine. The file below is a good quality file that should last you well over 10 years in your studio. If you want to get a few cuts (coarseness) #2/3/4- this will allow you to skip some sanding. I have three half-round files in my studio that I've used for ten years now, and they are my number 1 go to.... I like the #3 cut as a middle ground if you're going to buy only one file.</p>	<p>1- \$35.40</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/Friedrich-Dick-Half-Round-Hand-File-Cut-3/114709</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Needle File Set # 3 cut- I can also recommend this file set. It is NOT NECESSARY, but if you are looking to really get into jewelry, this is a great starter kit for smaller files.</p>	<p>1- \$48.00 (optional)</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/friedrich-dick-needle-file-sets-set-of-6/114799gp</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Flat File/ Bastard File – this is a coarse file that you can use to remove a lot of material. A flat File from the hardware store is great, it doesn't need to be anything special... I bought one for \$8.. 15 years ago and still use it daily.</p>	<p>1 – \$16.75</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/Friedrich-Dick-Flat-Hand-File-Cut-2/114700</p>	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p>	<p>QUANTITY (PER STUDENT):</p>
<p>Nylon/ Wood/ Rawhide Mallet – this will allow use to form our rings without marring the metal.</p>	<p>1-</p>
<p>ITEM HYPERLINK:</p>	
<p>https://www.riogrande.com/product/nylon-head-mallet/119327</p>	
	<p>QUANTITY (PER STUDENT):</p>

ITEM NAME (AND ITEM # IF NEEDED):	
<p>Ring Mandrel- I like have the measurement marks on my ring mandrel, you do want to be sure that you get a steel NOT aluminum ring mandrel. This will allow you to hammer the ring on the mandrel. If you have a full steel show nearby- they could probably make you a tapered round bar to use as a ring mandrel... starting at 2" and tapering down to ¾".. about.</p>	1- \$ 40.00-
ITEM HYPERLINK:	
https://www.riogrande.com/product/durston-steel-tapered-ring-mandrel/112322	
ITEM NAME (AND ITEM # IF NEEDED):	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p> <p>Metal Snips/Shears – I use these for cutting my solder, cutting bezel wire, You can also use a super heavy-duty pair of scissors.</p>	1- \$9.45
ITEM HYPERLINK:	
https://www.riogrande.com/product/soft-metal-shears/111232	
ITEM NAME (AND ITEM # IF NEEDED):	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p> <p>Hammers- I recommend a few options, and I would suggest going to your local hardware store to get these . The riveting hammer is great, and we will use it for riveting and texturing . Ace Hardware carries a 4 oz. ball pein hammer that will also be great to use. If you go to the hardware store, you want to look at the face of the hammers (the surface that will be hitting the metal)- try to find a hammer with a very smooth face, any mark or dents will transfer to your metal .</p>	<p>QUANTITY (PER STUDENT):</p> <p>Riveting Hammer- 26.95 Tiny tiny ball pien hammer</p>
ITEM HYPERLINK:	
https://www.riogrande.com/product/french-riveting-hammer-3-oz/112188	
ITEM NAME (AND ITEM # IF NEEDED):	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p> <p>Drill Bits - #54, 56, 65 these drill bits will fit wire gauges 16, 18 and 20 – which will be our most commonly used wires . When ordering, you'll need to select each size separately and add it to the cart.</p>	\$ 6.45/ per pack of 10
ITEM HYPERLINK:	
https://www.riogrande.com/product/High-Speed-Steel-Twist-Drill-54-14mm/349413	
ITEM NAME (AND ITEM # IF NEEDED):	
<p>ITEM NAME (AND ITEM # IF NEEDED):</p> <p>Hand Drill/ Drill Press/ Flex Shaft- there are so many options for this one</p>	
ITEM HYPERLINK:	

ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Wooden dowel rods- we'll use these to help us make chain for necklaces – you'll want a few sizes, and try to get the hardwood. I would recommend getting ¼", ½", ¾" sizes. We will use them in small 4"-6".. if you buy a yard you can easily cut it down using your saw! I use steel rods that I have collected over the years, but to start a hardwood dowel rod will work perfectly.	6" of ¼", ½", ¾" dowel rods
ITEM HYPERLINK:	
ITEM NAME (AND ITEM # IF NEEDED):	QUANTITY (PER STUDENT):
Brass Brush- we'll use this to make things shine!	\$ 9.60- just one
ITEM HYPERLINK:	
https://www.riogrande.com/product/brass-wire-bristle-brush/113172	

If you buy everything on this list you will spend over \$400. That is a big investment, but the tools on this list will last you a lifetime. If you decide you no longer want to make jewelry, you can always re-sell your equipment. There are facebook groups dedicated to just that.