

Metalworking 101

beginner

BEGINNER METALWORKING 101

Throughout the Metalworking 101 Series, you'll be working with many, many useful tools! For your convenience, we've called the major tool groups the "Soldering Kit" and the "Polishing Kit." Use the tools listed for these groups in addition to the tools and materials listed for each project, and you'll have everything you need.

Soldering Kit

- Ceramic Tile, 12x12" (floor tiles from the hardware store)
- Charcoal Block
- Soft Solderite Soldering 6x6" Pad
- Titanium Soldering Pick
- Little Dipper Pickle Pot
- Sparex pickle
- Self-pickling Flux in a spray bottle
- Copper Tongs
- Stainless steel containers for water: 1 for quenching and 1 for rinsing
- Diamond tweezers
- 8 or 10" blunt-tipped tweezers
- Torch and Fuel (used Jumbo Max; small butane would work)
- Third Hand
- Easy and Hard Sheet Solder, Easy Paste Solder, and Silver Wire Solder for Gold
- Solder cutting pliers OR shears
- Fire Extinguisher
- Safety Glasses

Polishing Kit

- Brass Brush
- Polishing Cloth impregnated with polishing compound
- Acrylic Nail Files, Fine 200/400
- **Recommended but not required:**
 - Lortone Tumbler
 - 1 lb Stainless Steel Shot
 - ShineBrite Burnishing Compound

And you'll use these tools in every project:

- Rawhide Hammer
- Domed Chasing Hammer
- Ruler
- Bench Block Helper
- Sharpie Marker

Safety Information

- Work in an environment with good ventilation, avoid skin contact with chemicals, and wash hands before eating.
- Never drop a hot piece of metal into the pickling solution.
- Keep a fire extinguisher nearby. It is safest to wear cotton clothing.
- Always work over a solid surface that is fire proof and heat resistant.
- Keep a bowl of clean, cool water within reach.
- Take care not to pick up the hot end of a tool or a hot piece of metal—this can happen easier than you might think!
- Fill your torch outside and far away from your work area.

1. Dangle and Post Earrings



Soldering Kit Polishing Kit

Nylon Jaw Pliers
Dapping Cube with
2 punches
Metal Stamps &
Brass Hammer

9-Face Texturing
Hammer
Wubbers Small Bail
Making Pliers
Wubbers Classic Narrow
Flat Nose Pliers
Wubbers Classic Medium
Flat Nose or Wubbers

Classic Bent Chain Nose
Pliers
Wubbers Classic Round
Nose Pliers
1.8mm Round Euro Punch
Pliers
Green Scrubbie Pad
Small Italian Sprue Cutters



20-gauge Round Argentium®
silver wire, approx. 20 inches
Easy sheet solder

Two 5/8" sterling silver discs
Two 11/16" sterling silver discs
2 sterling silver ear nuts
2 small to medium beads

2. Geometric Links Bracelet



Soldering Kit Polishing Kit

Wubbers Extra Large
Round Mandrel Pliers
Wubbers Large Triangle
Mandrel Pliers

Wubbers Large Square
Mandrel Pliers
Wubbers Medium Bail
Making Pliers
Wubbers Classic Medium
Flat Nose Pliers

Wubbers Classic Wide Flat
Nose Pliers or Wubbers
Classic Bent Nose Pliers
(for closing jump rings)
Lindstrom Shears
Heavy Duty Flush Cutters



14-gauge round dead soft sterling silver wire, 3 - 3-1/2 feet
Hard Sheet Solder

3. Mix & Match Stacking Rings



Soldering Kit Polishing Kit

Burnisher for setting
stones
Ring Mandrel on
swivel vise
Narrow ring sizers
Liver of Sulfur Gel
2 bowls of water

Green 3M Scrubbie pad
Italian Heavy Duty Flush
Cutters
Wubbers Classic
Medium Flat Nose
Pliers
Wubbers Classic Wide
Flat Nose Pliers
Multisizer Ring Sizer



6mm stone
6mm fine silver
bezel cup
Sterling Silver
pattern wire or
8-gauge half
round sterling
silver wire
Hard and Easy
Sheet Solder

4. Mixed Metal Collage Pendant



Soldering Kit Polishing Kit

Lindstrom Shears
Industrial Tube Wringer
Euro Tool Power Punch
ShineBrite Silver Dip
9-Face Texturing Hammer

Italian Heavy Duty Flush
Cutters
Wubbers Classic Round
Nose Pliers
Wubbers Large Bail Making
Pliers
Wubbers Classic Wide Flat
Nose Pliers



24-gauge brass and
copper sheet
26-gauge copper sheet
16-gauge round sterling
silver wire
Copper tacks,
#14 x 3/4" solid

5. Discover Open Back Bezels



Soldering Kit Polishing Kit

1.8mm Round Euro
Punch Pliers
Italian Flush Cutters
Lindstrom Shears
Sandpaper
Stainless Steel T-Pins
Wubbers Jumbo
Round Mandrel Pliers

Wubbers Medium Bail
Making Pliers
Wubbers Classic Wide
and Medium Flat
Nose Pliers
Wubbers Looping
Pliers
Baby Wubbers Chain
Nose Pliers



Brass or Copper Pattern wire
20-gauge dead soft round
wire to match
Head pins and beads for
dangles
EnCapture Artisan
Concrete™ Kit
Beads, charms, or cabs to
embed
Silver Wire Solder for Gold

6. Twinkle Star Bracelet



Soldering Kit Polishing Kit

Stainless Steel T-Pins
9-Face Texturing Hammer
French Shears
Round Metal Punch
Round Disc Cutter

Liver of Sulfur Gel
2 bowls of water
1.8mm Round Euro Punch
Pliers
Wubbers Classic Medium
Flat Nose Pliers
Wubbers Classic Wide Flat

Nose Pliers
Wubbers Medium Bail
Making Pliers
Various Star and Moon
Design Metal Stamps
Letter Stamp Set
(used Lucida)



Three 1-1/2" copper discs
Two 1-1/4" copper discs
Twenty-six 16-gauge
6.5mm ID jump rings
Two 16-gauge 4.0mm ID

jump rings
Two 16-gauge 4.5mm ID
jump rings
One 14-gauge 12.5mm ID
jump ring

Variety of small discs
approx. 6mm
24-gauge strip or sheet
metal cut to size
Easy Paste Solder

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INDIVIDUAL TOOLS AND MATERIALS USED PER PROJECT