

1. Develop a design for your ring

CABOCHON RING

The sketches show how different designs may work for this Cabochon. An Oval Onyx.
 *This design I thought would work but once I made a pattern of it out of paper then copper I realised that it wouldn't sit properly for the wearer.
 I then developed the design with more curves inspired by a building I saw in Barcelona designed by Gaudi "Casa Mila". The twisted metal on its facade.

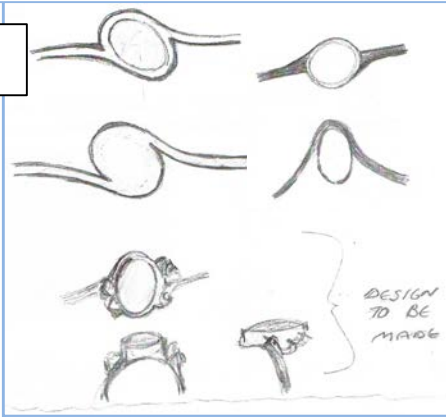
Special features of this ring will be

Structural – shaped bezel

Aesthetic – Twisted details on side of bezel.



1



4. Make a testing checklist

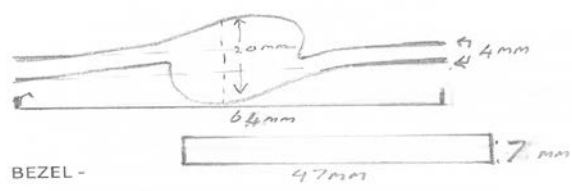
2

- Make sure ring shank soldered using hard solder. *YES*
- Solder joints are accurate with sufficient solder to withstand use. *YES*
- Shank filed, sanded and shaped correctly. *✓ took a while because of shape*
- Ring shank checked for size against specifications using appropriate tool and corrected if necessary. *✓*
- Bezel fits stone with sufficient base and height of bezel is correct for stone – test visual. *YES*
- Bezel fits shank accurately – check visually – no light through joint. *✓*
- Bezel solder onto shank accurately – check symmetry – distance from edges. *ALL GOOD*
- Stone supported correctly in bezel setting – wobble test. *✓*
- Check that twisted silver detail fits well – solder with medium. *YES*
- Metal finish completed to specification before stone is set. *✓*
- Stone set, check visually for gaps at edges of bezel. *ALL GOOD*
- Ring evaluated against specifications and drawings. *✓*

2. Prepare Working Drawings

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SIZE OF STONE – 15mm x 11mm height of stone 5mm
 BASE OF RING -

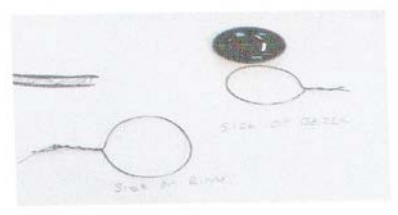


8 ml STB SILVER
RING SIZE 62mm + 2mm
5 ml STB SILVER

BEZEL -

-Measurements for ring and bezel size were made by twisting wire around finger and stone, then cutting and measuring. This can be checked especially for the bezel by calculating

Oval $d + d \div 2 \times \pi =$
 Round $d \times 3.14 =$



TWISTED DETAIL -




-Twisted detail is to be done freehand – difficult to design exactly so this will need to be worked step by step until aesthetically desired.

-To be dipped in lime sulphur then polished – giving depth to detailing.

FINISH –To be dipped in Lime Sulphur , then polished to give depth to the detailing

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5. Make Cabochon Ring testing outcomes as you proceed


1)  Using pattern for ring base cut out and solder.
- Filing took a reasonable amount from the band – should have used 1.00 sterling silver – hard solder.


2) Cut out bezel band and solder.
- shaping bezel to fit band, get it on right angle proved to take some time. Filing and placing onto band numerous times – medium solder.

3) Twisted side bands.
Lots of annealing needed and manipulating – slow progress. Needed to be soldered on one at a time with easy solder. Used tweezers on stand to hold in place.

4) Once it was all soldered the base of ring was filed around twisted metals.

Before Filing  After Filing 

5) Stone ready to seat 

Record of Evidence	Sign	Notes
<p>Ring design</p> <p>Includes reason for design process</p> <p>Alternative designs shown</p> <p>Specifications include at least two special features</p> <p>Structural (1+)</p> <p>Aesthetic (1+)</p> <p>Materials used and costings</p> <p>Working drawings of each component to scale in mm, annotated</p> <p>Size of cab and size of ring shown</p> <p>Equipment and tools to make design features identified</p> <p>Construction plan for sequence of making ring</p> <p>Schedule of testing shows how and when testing carried out, to meet specifications</p>	5	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p></p>
<p>Record of progress provided with photographic evidence of making ring</p> <p>Schedule of tests and recorded outcomes</p> <p>Show special feature development</p> <p>Show ring meets specifications</p> <p>Explanations of modifications to plans and/or problems encountered, photographic evidence</p>		<p>observed making.</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>
<p>Safety observed and recorded (schedule)</p> <p>Photographs - student using safety equipment and safe working practices</p>		<p>drawed.</p> <p>checklist provided.</p>