



Welding Club for Yr10-12 Students

From scratchy first welds through to powder coated finished products. (No experience required)



Students start with rough, scratchy welds, then progress to straight beads (single weld lines). After this, they start filling in between those individual "beads" to create a "pad weld," where each bead half overlaps the previous weld bead & the other half on the base metal. Once they are able to consistently merge these weld beads they will be quickly progressed through "tack welds," "lap welds," "fillet welds" and "butt welds." That leads to "external corner welds," as seen in the last two images.

The 1st Project, a Welded D6 (Six Sided) Dice



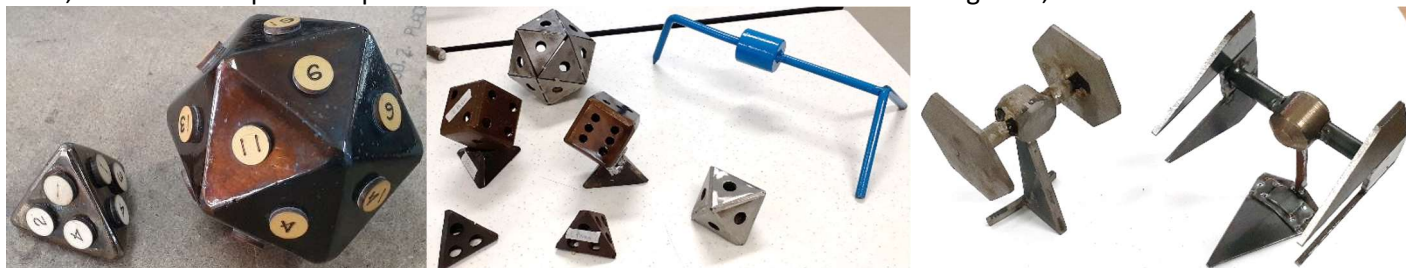
Starting with a length of 50x3mm flat steel bar, students cut these to length, tack weld them in a jig to assist with alignment, then weld the whole dice. The welds are then ground flat, which hides some imperfections, but exposes others such as voids that need to be re-welded and ground.



Once ground, the dice is drilled, sprayed with powder coating & oven baked. We use a clear powder coating, which combined with a heat induced colour change of the metal to provide the final colour.

Other Projects

The standard dice is followed by a D4 dice, then a D8 and finally a D20 dice. Other projects include stands for the dice, a "3rd hand," to hold work pieces in place to tack weld and Star Wars ornamental Tie Fighters,



For more information, contact Clontarf Beach State High School

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