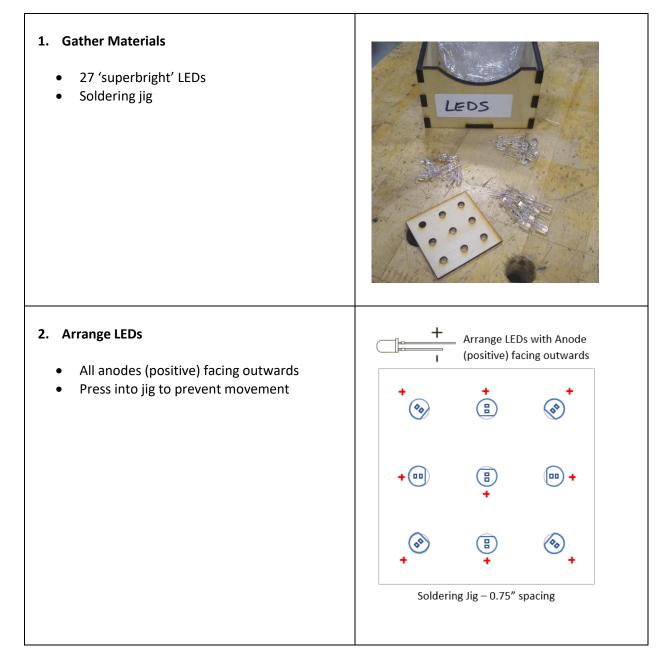
3 x 3 x 3 LED Cube Project

Constructing the LED Array



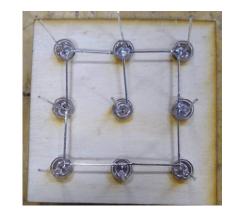
3. Bend Cathodes

- Bend all cathodes (negative) 90 degrees to form a continuous pathway
- Bend the centre LEDs cathode to connect to any of the outer LED cathodes



4. Solder cathode connections

- Solder each negative connection
- Take care to use minimal solder and the leads straight/square to help keep the overall project looking tidy



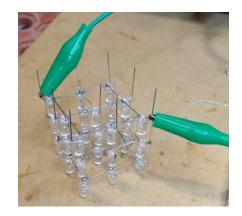
5. Test 1st layer

- Set a power supply to 5V
- Clip a 220 ohm (or near) resistor to the positive power supply lead
- Clip the negative power supply lead to the soldered connections
- One by one touch the free end of the resistor to the positive lead of each LED
- Correct any issues



6. Repeat the process in steps 2 through 5

- 7. Connecting the layers
 - Use alligator clips to temporarily hold layers together
 - Carefully position leads to be connected to on another focusing on, and soldering, one at a time.
 - Take care to use an appropriate amount of solder to keep things looking tidy.



- 8. Testing
- Set the power supply to 5 volts
- Attach the negative lead to the negative path for one layer
- Using a 220 resistor attached to the positive lead of the power supply, test each led by touching the anode (positive lead) from the base of the array.
- Move the negative lead to the next layer and repeat the test, again touching the resistor (positive) to the

