



**COMPONENTS LIST** (Please note – use of this template and circuit is entirely at your own risk and children must be closely supervised while using it!)

3 x red LEDs as crown jewels	Series resistor R, for about 20mA (9V – 3 x 2V forward voltage as LEDs are in series = 3V divided by 0.02A = 150 ohms)
9v battery and clip with wires	Sticky clear tape
Wires of suitable length for the brown lines, with any insulation stripped 1cm at ends, or sticky copper tape	

**INSTRUCTIONS - WIRES**

Position the LEDs with long lead and short lead positioned as shown.

Place wires on the brown lines so the bare ends are in contact with the LED leads and secure with sticky tape.

If necessary, stick the LEDs down with sticky tape.

Place the series resistor, put wires on the brown lines and connect bare ends with sticky tape

Place battery clip wires the right way round and in contact with wire ends, stick down with tape

Light up the jewels!

**INSTRUCTIONS – STICKY COPPER TAPE**

Place the copper tape on the brown lines, cut to form the individual conductors

Position the LEDs with long lead and short lead positioned as shown, overlapping the copper tape, secure with sticky tape.

If necessary, stick the LEDs down with sticky tape.

Place the series resistor, connect wires to the copper with sticky tape

Place battery clip wires the right way round and in contact with the copper, stick down with tape

Light up the jewels!



**RSGB Coronation activity 2023**  
**Light up the crown jewels!**

