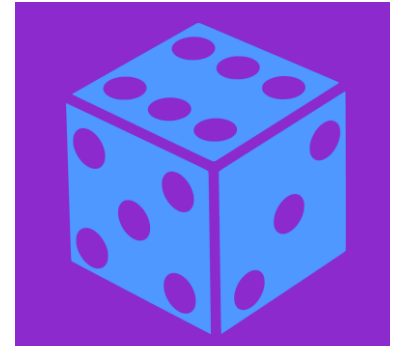


SPIRIT OF INNOVATION

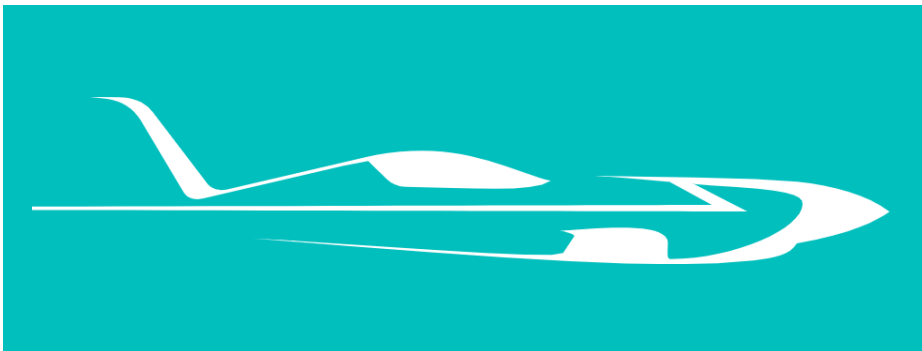
STEAM RESOURCES



Spirit of Innovation

Year Six

**Additional Resources – LED
Artwork**



How to make LED artwork

Materials:

Copper Tape

5mm LED Lights

Electrical Tape

Lithium Coin Batteries

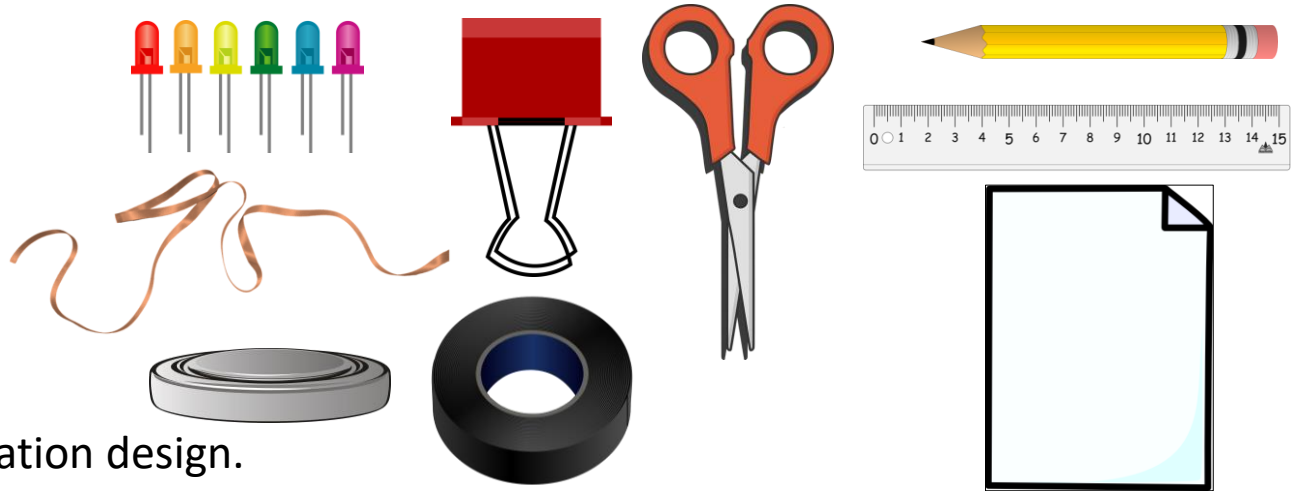
Binder Clips

Pencil

Ruler

Scissors

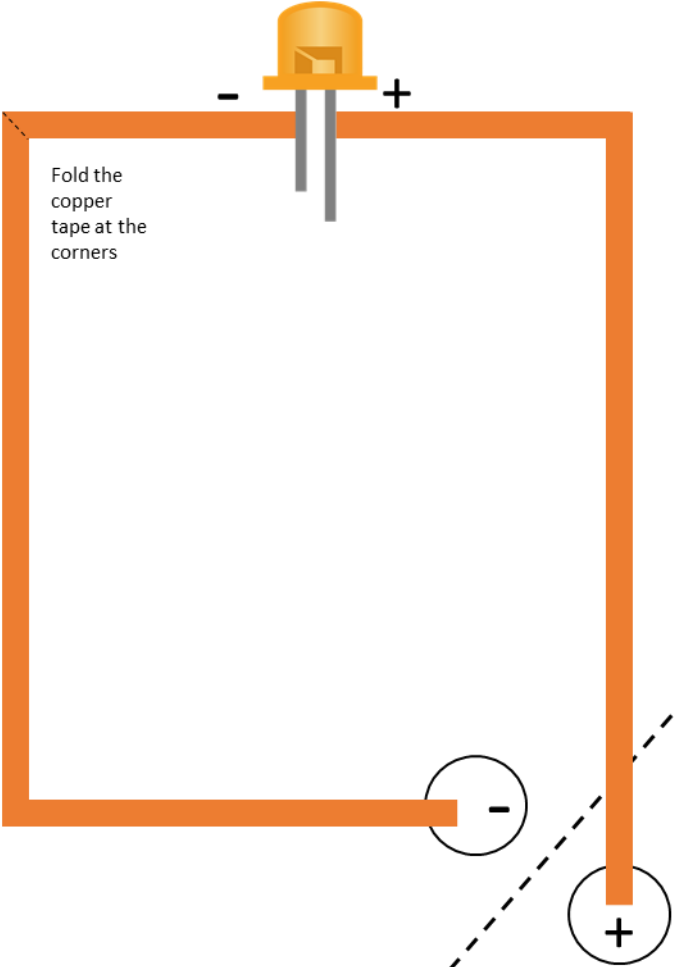
Paper



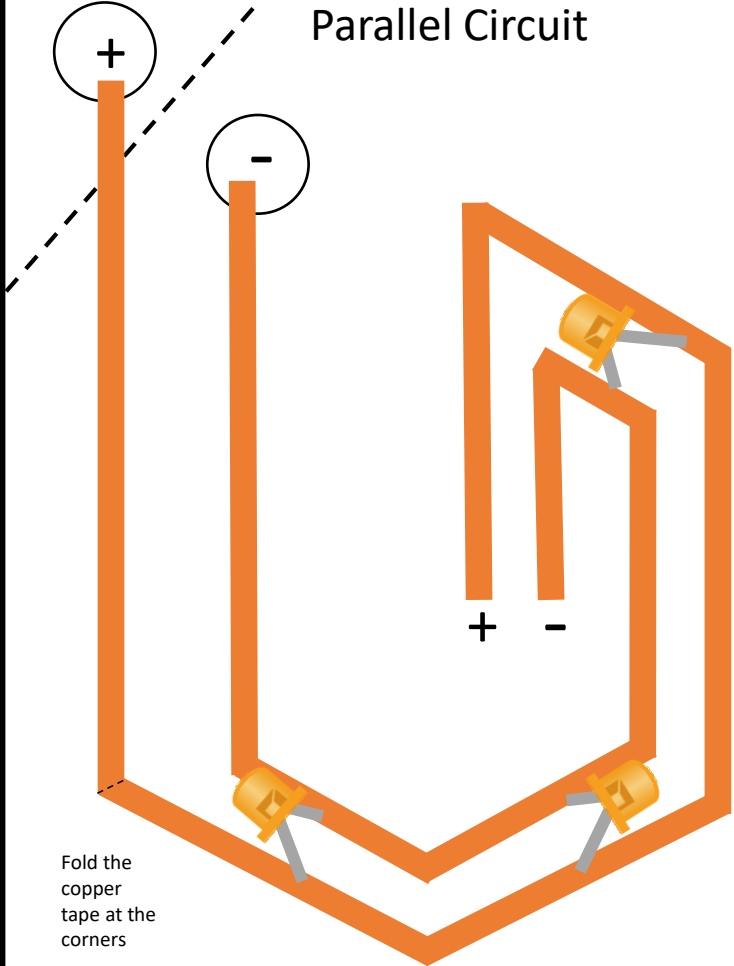
Method:

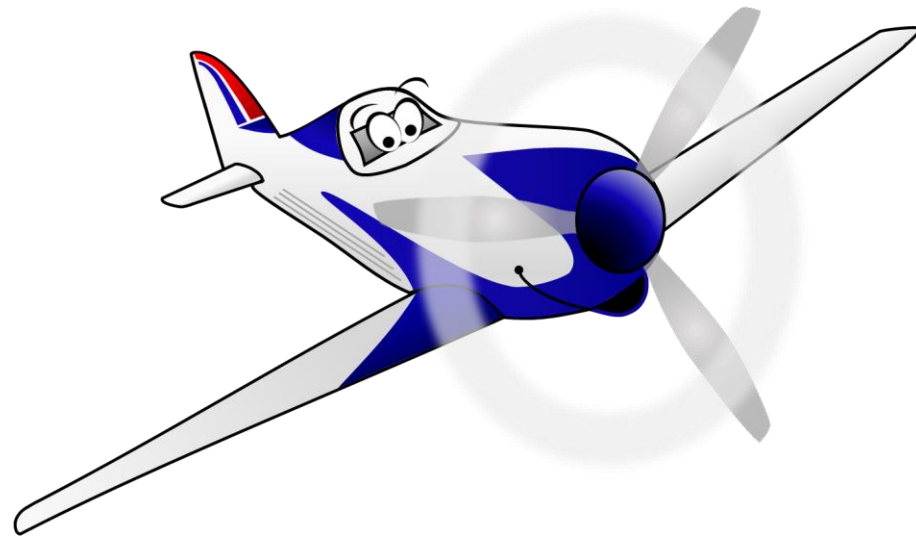
1. Draw out your Spirit of Innovation design.
2. Mark the areas to be lit.
3. Mark out where the copper tape will run; making sure the anode (longer wire) and cathode (shorter wire) wire on the LED can reach both of the copper wire tracks. Label these tracks positive (+) and negative(-)
4. Attach the battery, making sure that the positive side of the battery is only touching the positive line of the copper tape and the negative side of the battery is only touching the negative line of copper tape.
5. Secure the battery with a binder clip and a folded piece of paper/card. The binder clip will act as the on and off switch.
6. Place and attach the lights, make sure the anode is touching the positive side and the cathode is touching the negative side of the copper tape. *If using coloured LEDs it is important to note some colour combinations of lights will not work. For example, a red LED light has a lower voltage than a blue LED light. When combined, the blue light won't work.*

Simple Circuit



Parallel Circuit





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