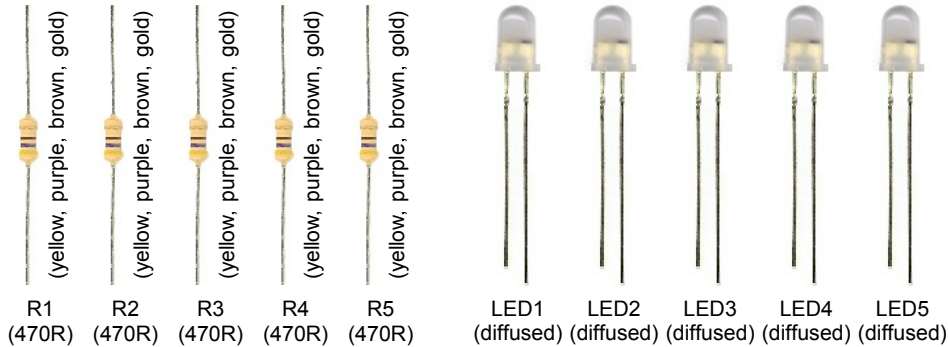


MYRTLE THE MERMAID

doyenne of the fishy realm



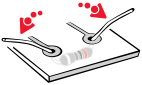

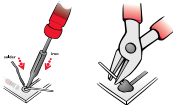
Circuit board



Coin cell retainer



Butterfly clip and pin

- 1 Identify the different components using the spotter chart.
- 2 Bend the legs of the resistors (R1 to R5) into a U-shape then fit them flat side by side on the tail (see picture overleaf). Bend the legs outwards into a V-shape to hold them in place. They can be fitted either way around. 
- 3 Fit the lights (LED1 to LED5) in the hair putting the shorter leg into the hole with the 'k' sign. The shorter leg also has a flattened edge on the rim. Bend the legs away from each other. 
- 4 Solder the legs of the components to the back side of the board then clip the legs close to each solder joint. 
- 5 Add a small blob of solder to the middle of the metal square on the back side of the board to help make a better connection with the coin cell. Spread the solder around a little with the soldering iron so it is not too high then fit the coin cell retainer to this same side of the board within the marked outline. Solder the coin cell retainer on the front side of the board using plenty of solder to make the joints physically strong. See picture overleaf.
- 6 Insert a **CR2032** coin cell into the retainer with the positive (+) side uppermost. The lights should start changing colour.
- 7 Fit the pin through the hole in the board and then through your clothing. Use the butterfly clip to hold your badge securely in place. The pin can be soldered in place if you wish.

