

Mini Light Torches

2 x 1 mm hard plastic (Styrene, HIPS, etc.)
1 x 5-6 mm thick foam (e.g. Plastazote)
2 x 1.5v button cell batteries

1 LED
Pencil
Scissors

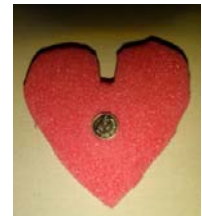
Double sided tape
Single hole punch
Template

Start by drawing around the template on both pieces of plastic and the foam, and cut them all out.



Use the hole punch (or cut with scissors – adult help may be needed) to put a hole in the centre of the foam layer, and then cut a small 'V' shape on one of the edges (this is where the light will go).

Place both of the button cell batteries into the hole that you've just made. It's important to make sure that they are in the right way – so that the positive on the bottom battery is against the negative of the top battery (or that, on one side of the foam, you can see the negative, and the opposite shows the positive).



The LED needs sliding over the foam (so that one leg sits on each side of it, over the battery). It will only work if the longer leg of the LED sits over the positive side of the battery. Squeeze the legs and battery together to test, and if it doesn't light up, turn it around and try again.

Once the torch is working, use double sided tape to stick the plastic layers to either side of the foam. Use permanent marker or similar to decorate if you want too.

