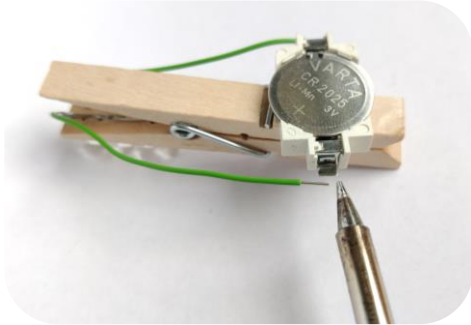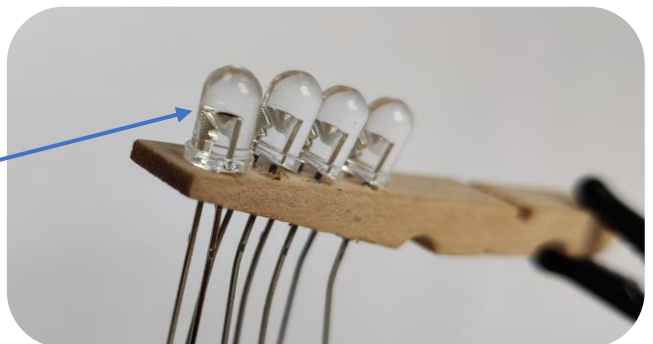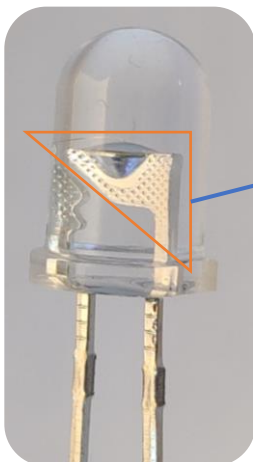- Place battery into battery holder
- Hold one wire to each leg of the holder
- Check if all LEDs light up
    - If not, swap cables (left side with right side and vice versa) and test again
    - If they still do not light up, check below
- Solder cable to battery holder so that LEDs light up

- Reassemble peg
- Use hot glue to attach battery holder to the back side
- Optional: paint and decorate peg
- Finished

If none of the LEDs light up, one might be rotated: You can spot a small triangle in every LED. All of these triangles must be in the same direction. If you spot a reversed one, use the soldering iron to remove and turn it around
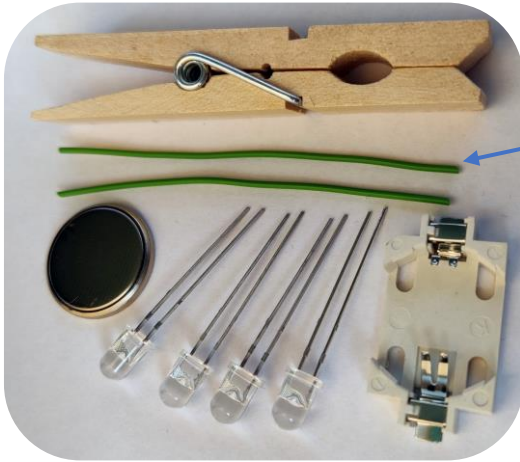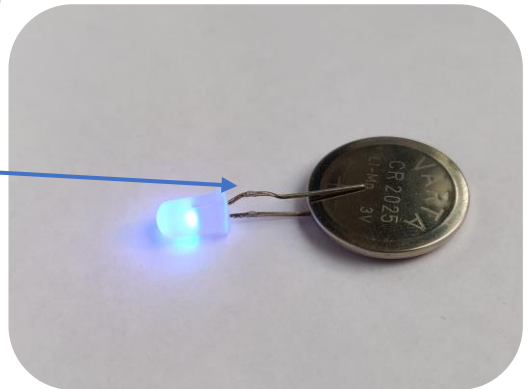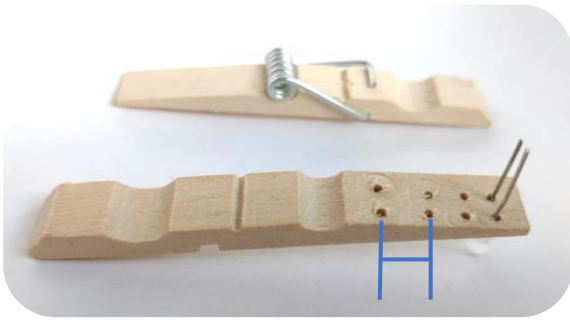
Nibbleklammer
A tutorial
"nibble" = a small byte
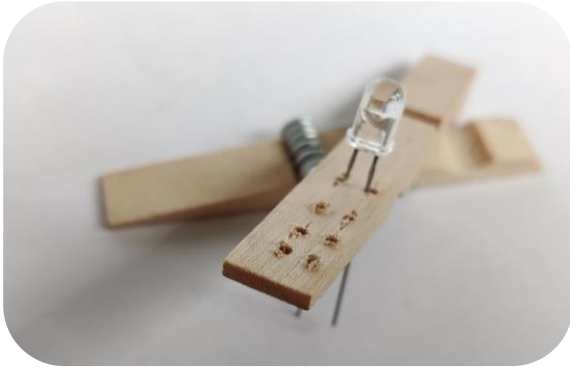½ "byte" = 1 nibble = 4 bit

a. 1 peg
b. 2 wires, as long as the peg
c. 1 battery
d. 1 battery holder
e. 4 LEDs (Nibble variant) or 3 LEDs (fast variant)

o Test one LED and battery
o Long leg of LED needs to touch plus of battery

o Strip both ends of both wires (cut gently and pull to remove plastic or use a wire stripper)
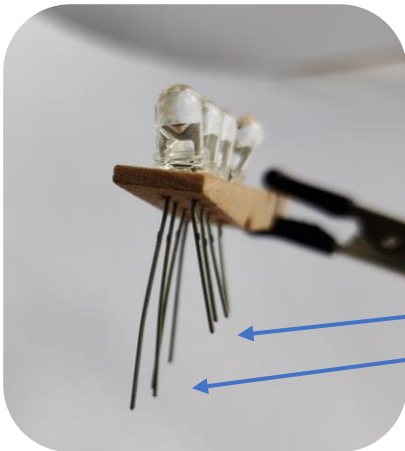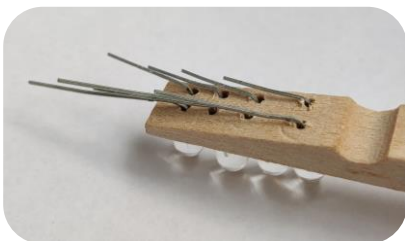
- Disassemble peg
- Drill two holes for each LED
- Leave enough space in between the holes for the LEDs to fit (as shown in the picture)
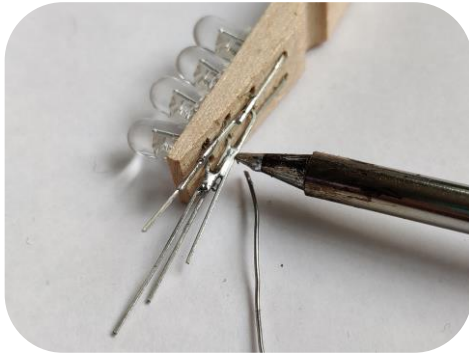

- Insert legs through holes to (from straight side of the peg to angled side)
- Important: All long legs to one side

- Check again:
- All short legs on one side
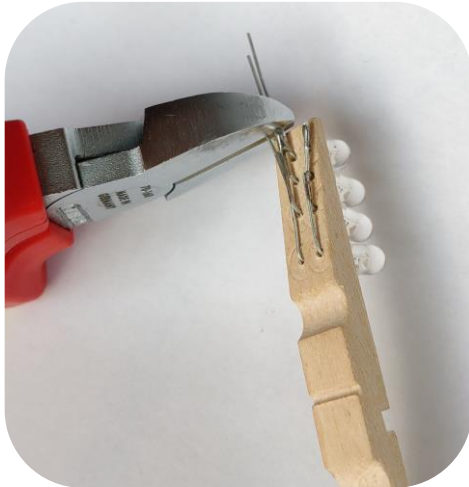- All long legs on the other side

- Bend all legs of the LEDs to one direction (preparing for soldering)
- All long legs should touch each other
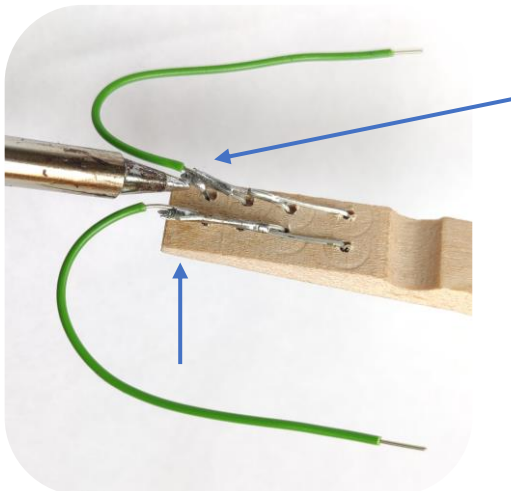- All short legs should touch each other

Soldering
o 1 soldering iron 320-350°C
o Some solder (looks like some very soft wire)

o Solder long legs together (connect them using solder and soldering iron)
o Solder short legs together

o Remove excess legs with wire cutter

o Solder one wire to each row of legs
o 1 wire is for "plus" of the battery
o 1 wire is for "minus" of the battery