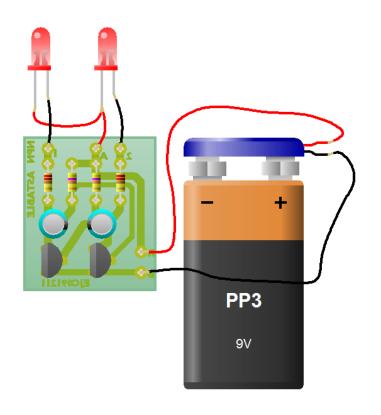
## **Transistor Astable Circuit**

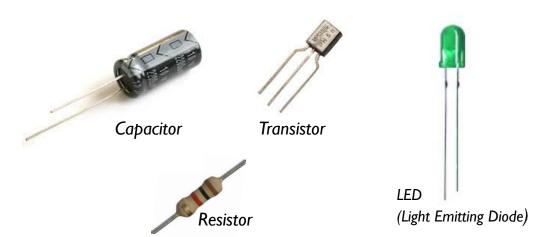


## **Learning Outcomes**

By the end of the lesson you will be able to:

Describe the functions of resistors, capacitors, transistors, LEDs and batteries.

Solder electronic components onto a circuit board (PCB)



## **Key facts**

- The shorter lead on capacitors and LEDs identifies the negative connection, if they are inserted the wrong way round they will not work correctly. The positive and negative leads are also called the anode and the cathode.
- The strip down the side of the capacitor also indicates the negative connection.
- The plastic part of the LED also has a flat side which indicates the negative.
- Resistors come in different values, just like eggs come in different sizes, and are differentiated by coloured bands, each colour representing a different number. Values are not printed on resistors since they would be too small to read.

## **Transistor Astable Circuit**

