**The Solderless Bread board** is used for protyping circuits.

Across the top and bottom are two horizontal rows that are typically used for power and ground distribution, otherwise known as 'busses.' The rows are subgrouped into 10 sets of 5 connections, ALL connected, ALL the way across!

▶The RED row is designated "+" 

, as in PLUS, and not numbered, except in this example.

▶The BLUE row is designated "-" 

, as in 'NEGATIVE.

The upper pair of 'RAILS' is not connected to the low pair of rails, but can be 'linked' by using a solid wire jumper (not stranded wire).

CONVERSLY, the vertical COLUMNS are ISOLATED groups of 5 connetions. The bottom 5 are separated from the top 5 by a 'MOAT,' which is where ICs are placed, so that independent connections can be made to the top and bottom rows of IC pins or 'legs.'




Note the IC or 'chip' orientation indentation as well as the PIN-1 designation dot.


Resistor

"The MOAT," isolates the top and bottom columns so that ICs can be connected.

LED Light Emitting Diode