INTRO TO THE BREADBOARD

WHY IS IT CALLED A BREADBOARD?

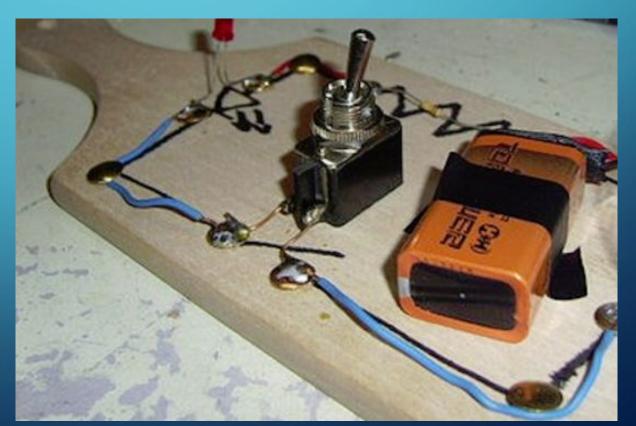


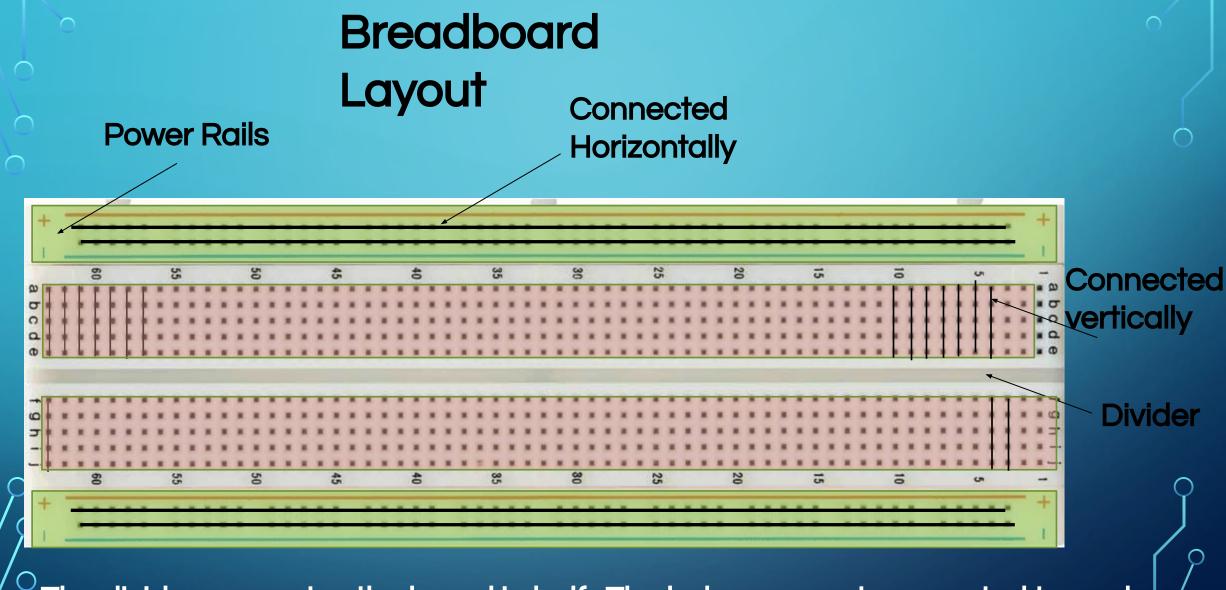
HISTORY

• In the past, people would use an actual board for cutting bread to build electronic circuits – components were large and clunky

Used nails and thumbtacks to attach wires to build a simple platform

for creating circuits





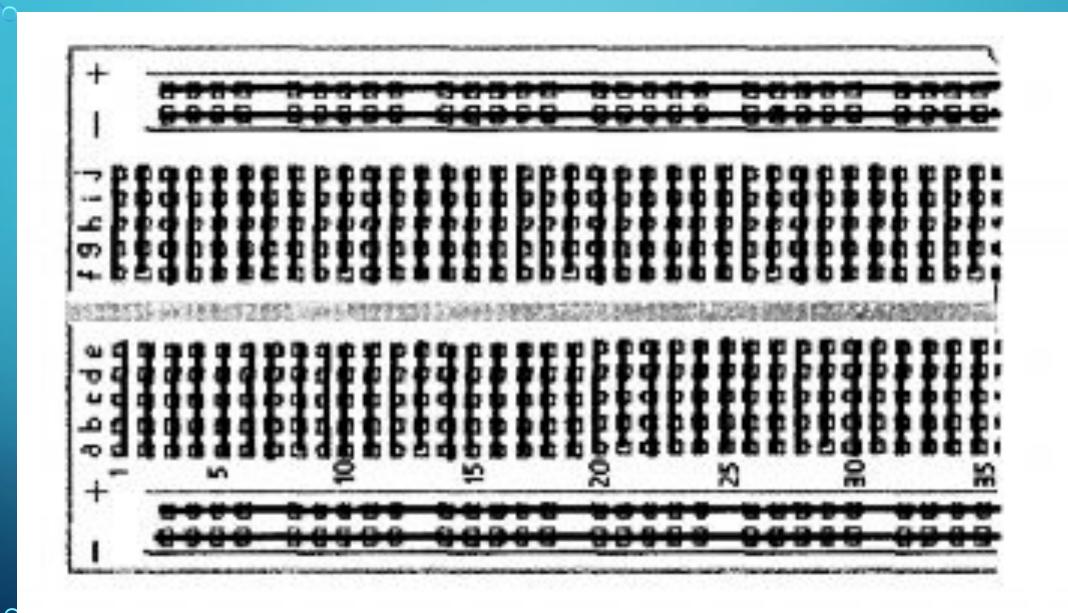
The divider separates the board in half. The halves are not connected to each other.

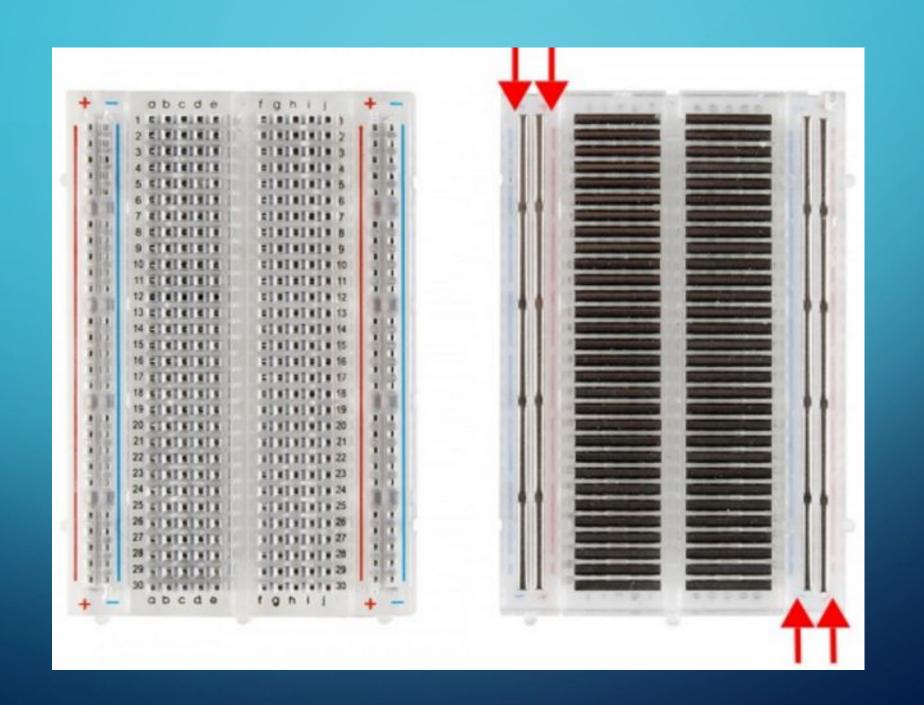
Instructions

Use one side of your breadboard sheet diagram to draw all of the connections on the next slide. This shows how the copper rails are placed behind the plastic case of the breadboard.

Include a title for this page, print your name and write out today's date.

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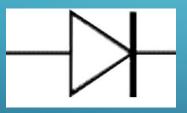
SCHEMATIC SYMBOLS

LED SYMBOL

Resistor

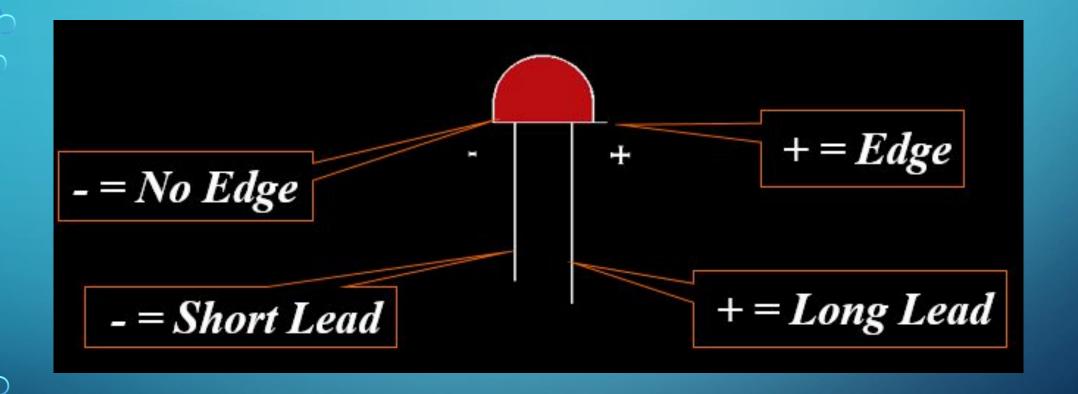


Power Diode



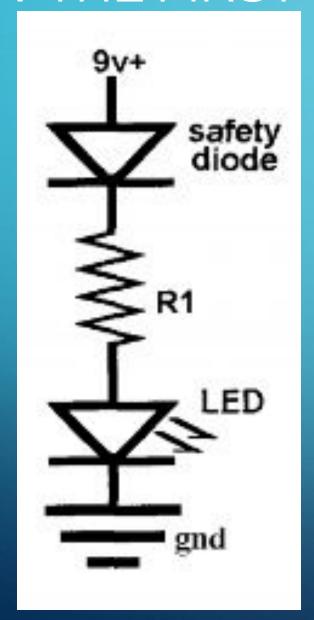
(Protects against reverse current. Example: Plugging in a battery backwards)

LED POLARITY



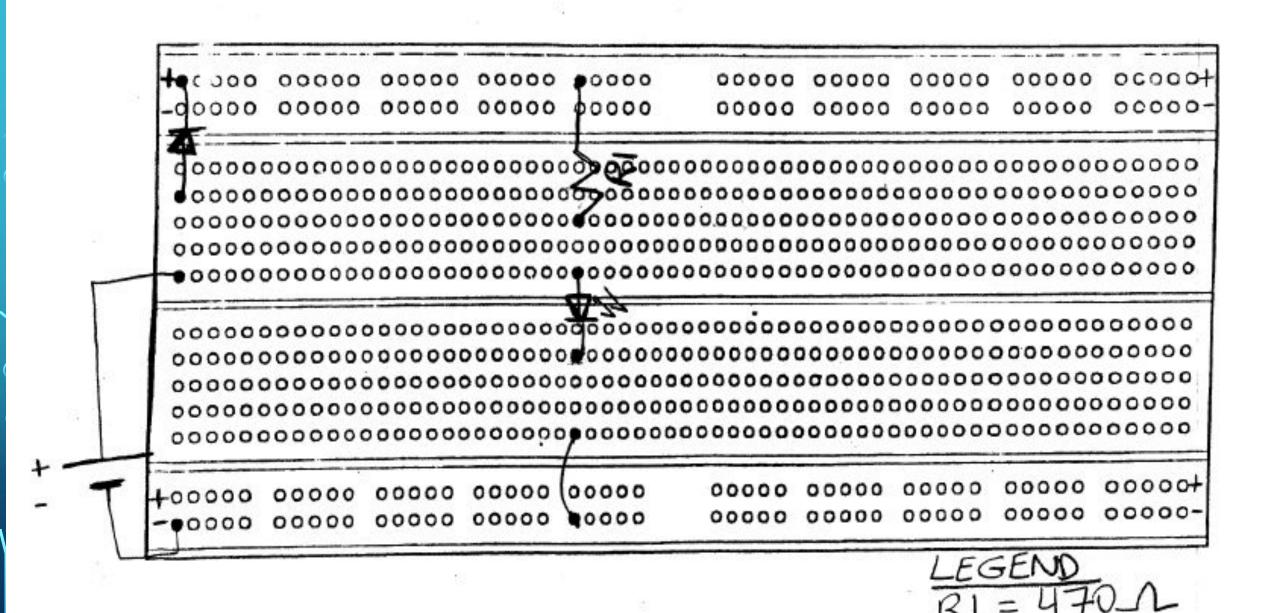
Direction LED is inserted in matters

USING THE BREADBOARD SHEET PROVIDED, DRAW THE FIRST CIRCUIT

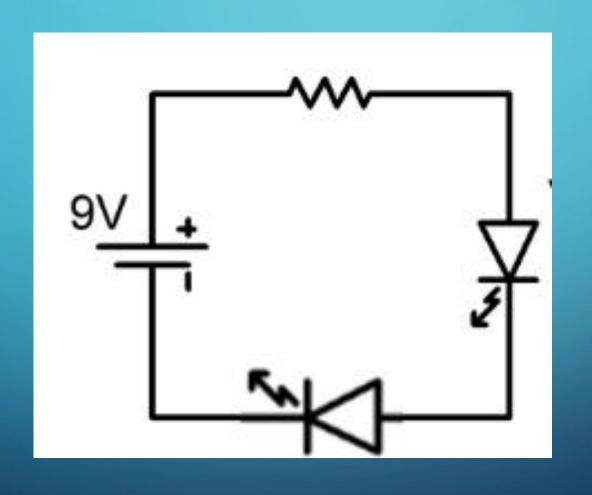


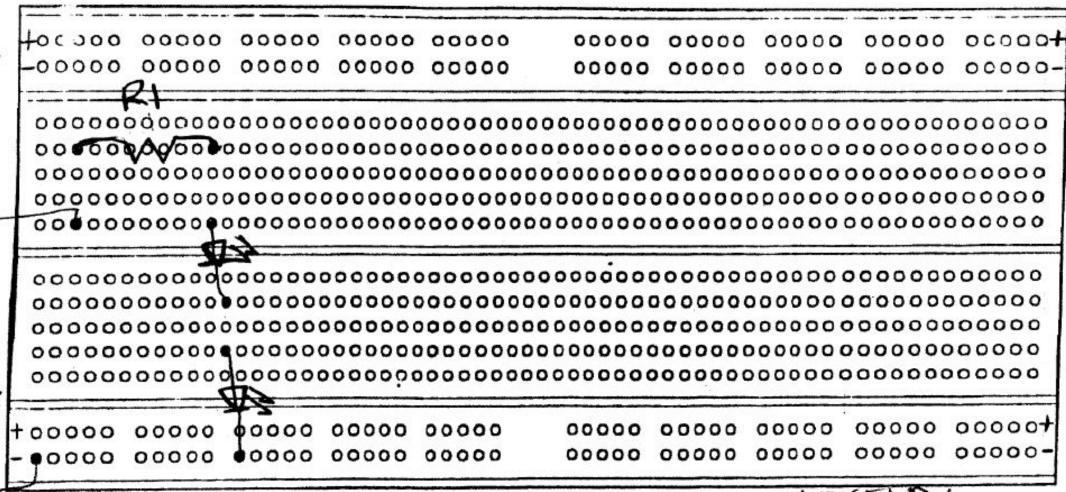
Use an unused side of one of your breadboard diagram sheets. You can turn to the next slide and copy it exactly as it appears.

When drawing on the breadboard paper, make sure to use the schematic symbols and show the position on the breadboard you would like to place the components (LED, Diode, and the resistor)

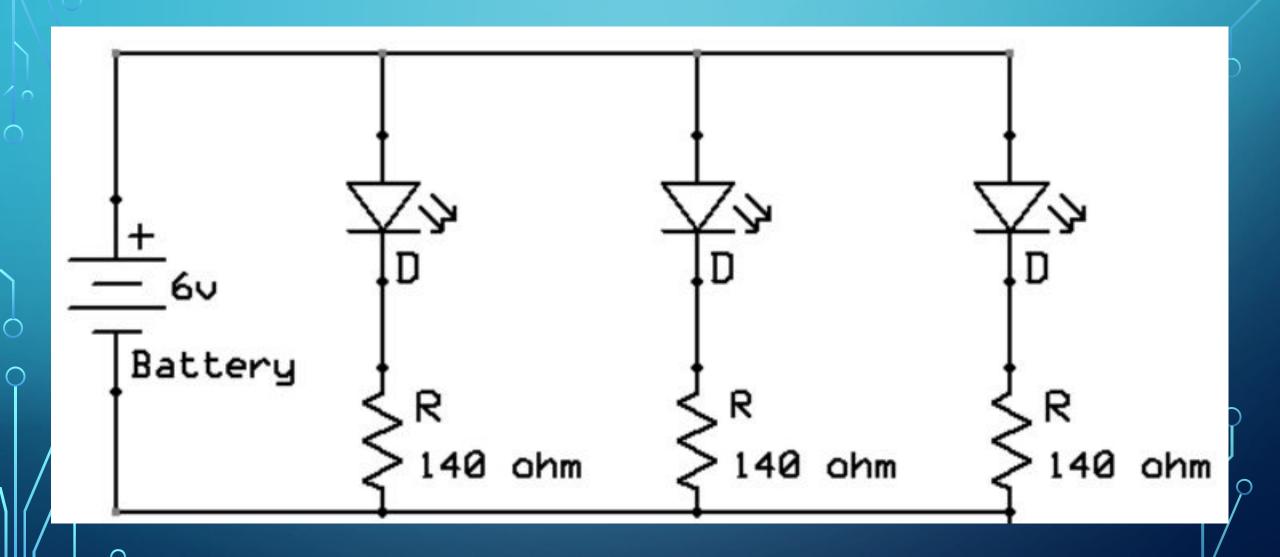


Try this one onResistor = 250 Ohms

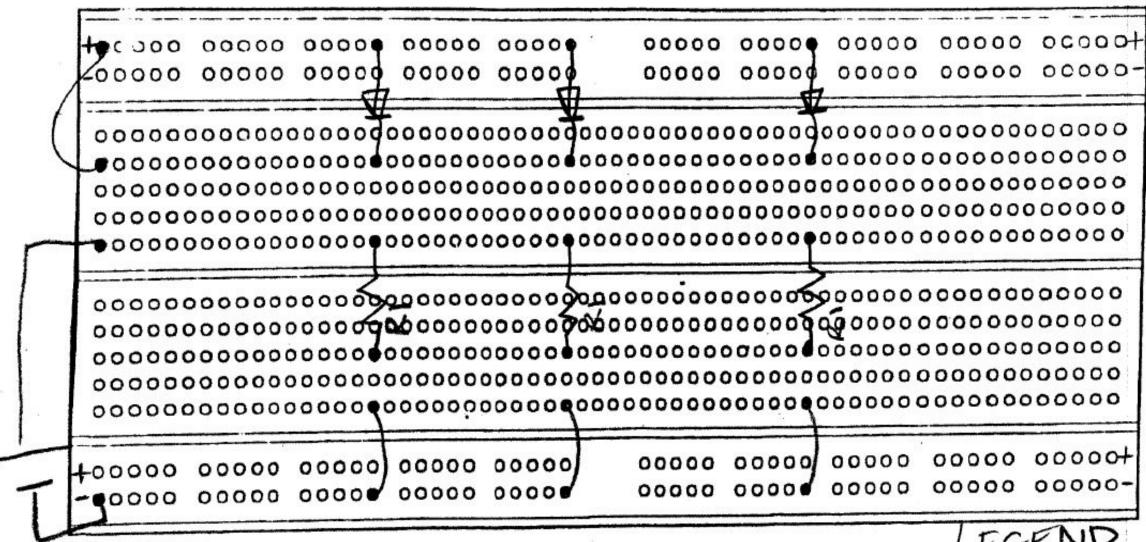




LEGEND: R1= 250-1



Can you spot the two errors on the next slide?



RI= 140 SL