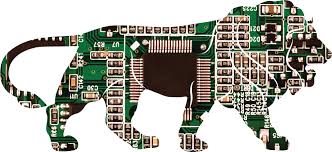
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** 120 Micro Electronics**

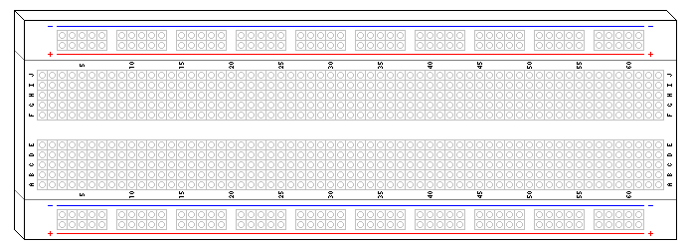
Assignment #1

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Read pages in opening part of the Manual through to page 11
2. Identify the 18 Components from the “Parts Bin” Name, Drawing, Symbol. Draw the component 2D figures, Go back to the Components page and draw each Symbol.

|  |  |  |
| --- | --- | --- |
| Component Description | Symbol | Pic or Drawing |
| 1 Capacitor  2 Diode  3 Zener Diode  4 LED  5 Resistor  6 Potentiometer  7 Push Button  8 SPST Switch  9 Relay  10 Amplifier  11 NPN Transistor  12 Photo Transistor  13 SCR  14 Regulator  15 FET  16 Speaker  17 Transformer  18 4 Logic Gates |  |  |

2. Discovering how the Bread Board is laid out. Draw the lines to show the paths of continuity.



1. Draw and Identify the POLARITY of the following;
2. LED

B. Capacitor

C. Diode

1. Read the following resistors

YELLOW - VIOLET - BROWN - GOLD is

BROWN - BLACK - RED - GOLD is

ORANGE - ORANGE - RED - GOLD is

BROWN - BLACK - ORANGE - GOLD is

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_33,000 Ω (or 33 kΩ) with 5% tolerance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_100,000 Ω (or 100 kΩ) with 5% tolerance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1,000,000 Ω (or 1 MΩ) with 5% tolerance