

Time saving techniques to apply when I assemble the Lab.1 circuit:

I will **save time** and minimize chances of duplication errors by always recording results directly to a spreadsheet or text editor

Having reviewed the assembly procedures, I need to:

- get familiar with the breadboard connections, the numbers may vary from the pictures
- be sure that the DC power to the breadboard is OFF
- shorten component and wire leads to avoid short circuits
- check that jumper wires are not broken (test for $\sim 0 \Omega$ resistance with the component tester)
- verify the values of all the resistors and capacitors with the component tester
- record these values in a ready to use format
- complete each step, duplicating placement and connections exactly as shown
- make a sketch of the circuit as the components are added
- check that the completed circuit connections correspond to the picture in the manual
- verify that the sketch matches the circuit
- turn on power to see if the LED begins to flash
- take a snapshot of the completed circuit

and remember to include in the lab book entry for Lab.1:

- the sketch of the circuit with components as placed on the breadboard
- a revised sketch of the circuit with proper component symbols and simplified arrangement
- a snapshot of the completed circuit

R1	R2	R3	R4	R5	R6	R7	R8	C

Table of components to be measured and recorded during the assembly of the mystery circuit