COMP 256

Spring 2022

Lab 01 TINKERCAD Demo Notes

At the start of Lab 01, give a demo of building a circuit using a breadboard in TINKERCAD.

1. Create a new circuit – Lab01-FirstCircuit

2. Get a breadboard

3. Get a battery (3V coin battery)

4. Connect the battery to the power rails (+ on top, - on bottom)

a. Show how to

i. add points to bend wires.

ii. change wire colors

iii. delete wires

iv. Stop a wire started by mistake (escape)

b. Conventions

i. Red only for +

ii. Black only for –

iii. Other colors to help understand circuit.

c. Show that rails are connected horizontally (i.e. TINKERCAD highlights them)

5. Build the circuit:



6. Simulate the circuit and show:

a. Click push button to close switch.

b. Release to open switch.