COMP 256

Spring 2023

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 (both top and bottom)

a. Show how to

i. add points to bend wires (click and drag).

ii. change wire colors

iii. delete wires (select and delete)

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 and terminals are connected vertically.

TINKERCAD highlights them when you point at them.

5. Build the circuit:



6. Simulate the circuit and show:

a. Click push button to close switch.

b. Release to open switch.