Button and Switches Challenges

Print your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Print your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Print your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will receive one box check to make sure it contains:

1 Breadboard

1 LED

2 Alligator Clips

2 Jumper Wires

1 battery pack with battery

Challenge #1 – Turn on a LED with a Button

Go to the Material Boxes and get a button

Use the button in turn on your LED.

What color is the LED?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have completed the challenge

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Challenge #2 – Light two LEDs with one button

Go to the Material Boxes and get a 2nd LED

Light both LEDs with your button.

What color is your Second LED?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have completed the challenge

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Challenge #3

Go to the Materials Boxes and get a slide switch

Use the switch to turn on and off your motor

Is your motor spinning clockwise or counter clockwise?

Challenge #3 Continued

Return your switch to the CORRECT Supplies box

I have completed the challenge

Challenge #4

Create a circuit that requires two buttons to turn the LED on.

I have completed the challenge

Challenge #5

Create a circuit that controls 3 or more LED with a dip switch

I have completed the challenge