Prototyping Challenges

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

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

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

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

1 Bread Board

1 LED

2 Alligator Clips

2 Jumper Wires

1 battery pack with battery

Challenge #1 – Light the LED

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

I have completed the challenge

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

Challenge #2 – Light two LEDs

Go to the Materials Boxes and get:

A 2nd LED from supplies box

Light both LEDs in Parallel

What color is your Second LED?

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

I have completed the challenge

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

Challenge #3

Go to the Materials Boxes and get:

A motor from supplies box

Spin only the motor

Is your motor spinning clockwise or counter clockwise?

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

I have completed the challenge

Challenge #4

Using the supplies you have can you get two components working in series?

Yes or NO?

If yes what two component’s?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

If no what do you need to get two things in series?

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

Move on to button Challenge