

Circuit Building Activity 1

Group number ____

Aim: The purpose of this activity is for you to work as a group in order to design and build a selection of circuits. It is hoped that by working as a group you are able to strengthen your knowledge of circuit design and circuit diagrams, as well as your ability to successfully construct electrical circuits.

Instructions: For each of the circuits described below you must: 1. Design the circuit as a group and draw a circuit diagram (do this before you touch any of the equipment), 2. Build your circuit with the power off, 3. Check your circuit by turning on the power and testing it out in order to see whether or not you correctly built the circuit. USE PENCIL!

Circuit description	Circuit Diagram	Did it work?
One switch switches on two light globes in series.		Yes/No
2 switches which switch on two lights. One switch switches on one light globe and the other switch switches on the other light globe.		Yes/No
2 lights. 1 stays on all the time. The other can be switched on and off.		Yes/No
3 switches and if any one of them is pressed the light globe turns on.		Yes/No
2 switches, 2 lights. 1 switch switches on one light globe and the other switch switches on both light globes.		Yes/No