Wiring a Wall Assignment

Using what you have learned and the ELECTRICAL CODE SIMPLIFIED – RESIDENTIAL book, you are going to simulate the wiring of a simple room with a PARTNER.

- Frame up a wall and install the device boxes as shown. You will be recycling 2" x 4" studs so your framed wall will not be exact.

- The top and bottom plates should be 6ft long and the studs in between should be 6ft long with 2ft spacing. Cut ALL 6 pieces the same length on the mitre saw.

- Nail the wall together with 3in common nails

- Using the Code Book install the device boxes for the receptacles and switches at the appropriate height.

- Attach your wall to the Breaker Panel wall using a cordless drill and 3" screws

- You are now ready to run the wire. You are going to have **TWO** circuits coming off the breaker panel to your wall. One circuit (A) will have a receptacle and a single pole switch and light. The other circuit (B) will have a light with 2 - 3 way switches controlling it.

- Plan out the runs of wire BEFORE you start. Use a piece of paper and the ELECTRICAL CODE BOOK to help you make good decisions about how to wire.

BONUS MARKS WILL BE GIVEN TO THE GROUP THAT USES THE LEAST AMOUNT OF WIRE

- Once you have a plan and Mr. Claassen has **CHECKED IT**, run your wires from the breaker panel. Remember to leave 6-8inches protruding out of each device box.

- Install switches, light fixtures and receptacles

- Test using a multimeter **FIRST!!!!!**

- Connect to Live 110v and make sure it all works