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## ***ELECTRICAL CIRCUITS***

Objectives:

Demonstrate electrical skill by wiring an electrical duplex with one side controlled by a light switch and the other side is continuously hot.

Materials Needed:

1 piece 14-2 wire w/ground, 1 piece 14-3 wire w/ground, 1 light switch, 1 wiring board with boxes, 2 grounding clips, 1 duplex receptacle, 4 solderless connectors, and various tools provided.

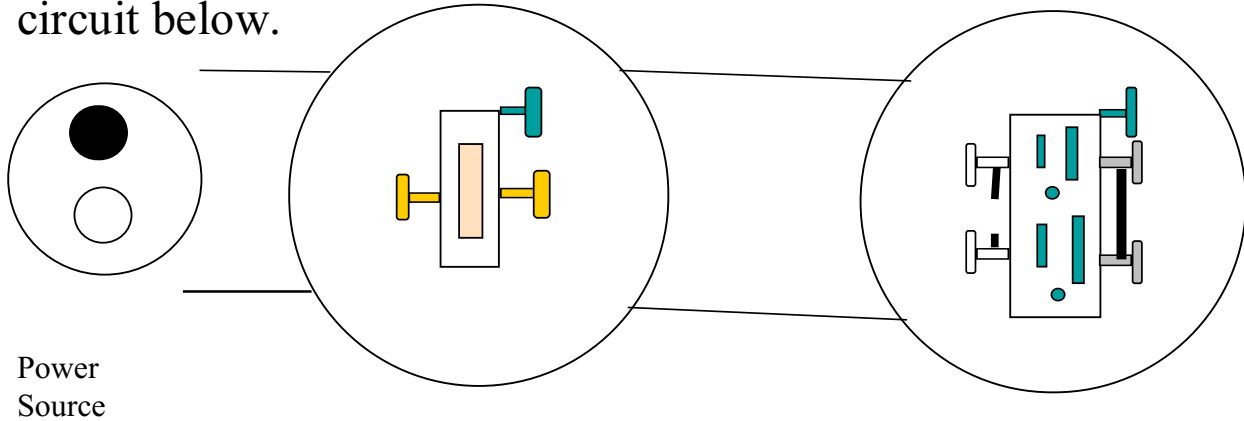
Directions:

1. Draw wiring diagram using the following letter codes  
R = Red/Hot  
W = White/Neutral  
B = Black/Hot  
G = Bare or Green grounding conductor
2. Wire Switch to NEC code.
3. **DO NOT cut wire-use the length given**

**Point Evaluation**

	Possible	Points Earned
1. Wiring diagram drawn correctly	11	_____
2. Wire secured to box	3	_____
3. Cable covering removed properly	3	_____
4. Insulation removed properly	10	_____
5. Grounding conductor pigtails	2	_____
6. Proper Installation of grounding clips	2	_____
7. Proper connection to screws	5	_____
8. Proper use of solderless connector	4	_____
9. Power source entry	2	_____
10. Outlet split correctly	1	_____
11. Correct wire connections	4	_____
12. Work habits and shop clean-up	3	_____
<b>Total Points Earned</b>	<b>50</b>	_____

Draw and label a wiring diagram for a split wired receptacle circuit below.



## Outlet Selection

Placed in front of you are four outlets. Only one of these outlets has been prepared in a matter that is suitable for this circuit. The correct outlet is \_\_\_\_\_.