Name:	Period Date:
Physics Lab: Foutan Board, Series and I	Parallel Circuits (CIPT)
Build various circuits, using a "Foutan Board" from	
0. Optional board test: Insert switch plugs into 1	
1. Draw a circuit that has a battery, a test switch and a light bulb:	
2. On the Foutan schematic, use a colored pencil to	o show how you would make this circuit using
lamp A. Next, using lamp B, then C, then D.	
A B B C Test 10 11 11 11 11 11 11 11 11 11 11 11 11	B
Py 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	P
3. Draw a circuit that has a battery, a test switch and two light bulbs in series.4. On the Foutan schematic, use a colored pencil to	o show how you would make this circuit using
lamp A and B. Next, with C and D.	,
7	7

5. How can you test whether two lamps are in series?6. What do you notice about the brightness of the bulbs?

7. Draw a circuit that has a battery, a test switch and two light bulbs in parallel .
8. On the Foutan schematic, use a colored pencil to show how you would make this circuit using lamp A and B. Next, with C and D.
A&B
9. How can you test whether two lamps are in parallel?
10. In parallel, the bulbs should have <u>full brightness</u> , however the power supplies can't supply enough current (they have a high internal resistance). If Dr. H hooks up a stronger power supply, do they achieve full brightness?
11. Draw a circuit that has a battery, a test switch and two light bulbs in series and one bulb in parallel with both of them .
12. On the Foutan schematic, use a colored pencil to show how you would make this circuit.
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B&C in series, A in parallel
13. What happens when you remove lamp A?
14. What happens when you remove lamp B?

