Investigating Series and Parallel Circuits

Name	Date
Set up the circuits pictured below and record your observations.	
Series Circuit (bulbs in series)	
 What happens? Do both bulbs light up? Are there any differences in how bright they are compared to each other? 	Draw a diagram showing what you think is going on at the level of electrons and protons to make the bulb light.
compared to when there is only one bulb in a circuit?	
4) If you remove one of the bulbs, does the other one still light up?	
Parallel Circuit (bulbs in parallel)	
1) What happens?	Draw a diagram showing what you think is going on at the level of electrons and protons to make the bulb light.
2) Do both bulbs light up?3) Are there any differences in how	
bright they are compared to each other?	
compared to when there is only one bulb in a circuit?	
4) If you remove one of the bulbs, does the other one still light up?	

Investigating Series and Parallel Circuits

Series Circuit (batteries in series)



- 1) Does the bulb light?_
- 2) Are there any differences in how bright the bulb is compared to when there is only one battery in a circuit?

3) If you remove one of the batteries, does the bulb still light up?

Draw a diagram showing what you think is going on at the level of electrons and protons to make the bulb light.

Parallel Circuit (batteries in parallel)



- 1) Does the bulb light?_
- 2) Are there any differences in how bright the bulb is compared to when there is only one battery in a circuit?

3) If you remove one of the batteries, does the bulb still light up?

Draw a diagram showing what you think is going on at the level of electrons and protons to make the bulb light.