

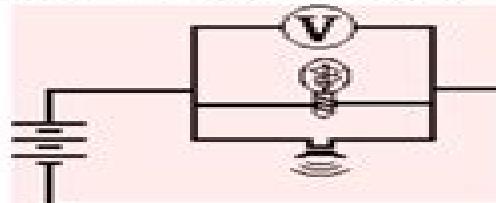
## Series Circuits

Read from Lesson 4 of the Current Electricity chapter at The Physics Classroom:

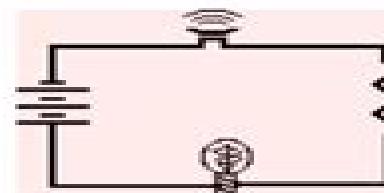
<http://www.physicsclassroom.com/Class/circuits/u9i4a.html>  
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MOP Connection: Electric Circuits: sublevels 7, 9 and 11

1. Electrical devices in circuits can be connected to each other in a number of different ways. The two most common connections are *series* connections and *parallel* connections. Observe the electrical wiring below. Indicate whether the connections are series or parallel.

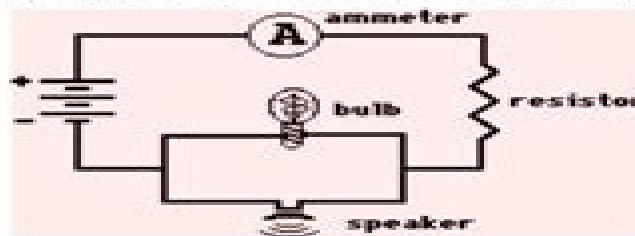


Series or Parallel?

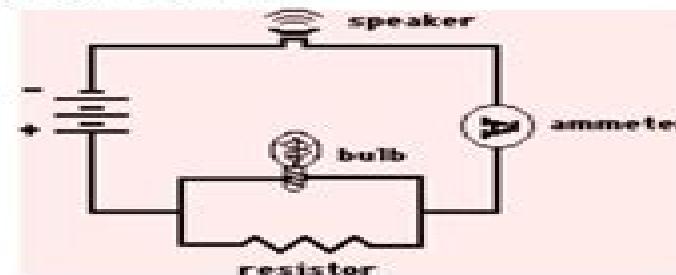


Series or Parallel?

2. Two electric circuits are diagrammed below. For each circuit, indicate which two devices are connected in series and which two devices are connected in parallel.



Series \_\_\_\_\_  
 Parallel \_\_\_\_\_



Series \_\_\_\_\_  
 Parallel \_\_\_\_\_

3. Comparing Series vs. Parallel Circuits

Fill in the table below to indicate the manner in which series and parallel circuits differ.

	Series Circuit	Parallel Circuit
a. Definition: The pathway by which charge loops around the circuit is characterized by _____ pathway(s).		
b. Observation: If one light bulb goes out, the other light bulbs _____.		
c. Observation: As the number of resistors is increased, the overall current _____.		
d. Observation: As the number of resistors is increased, the overall resistance _____.		

# Study Guide Series And Parallel Circuits

**Padhraic Smyth**

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