Current Electricity & Circuits (Sect. 12.1, 12.2, and 13.1)

In current electricity, m	electrons are allowed to th nanner.	rough a	in a
For current electricity	to be used in a safe manner we use	both	and
We use	(made up of cells) or energy tha	at comes from	
Circuits			
Much like your circular path in order for elec	atory system, an electric circuit needs trons to flow.	s to have a	
The following compo	nents make up a simple circuit:		
Source:			
Load:			
Conducting Wire:			
Switch:			

Circuits and Diagrams

Part of Circuit	Symbol
Source	
Conducting Wire	
Switch	
Load	

Series vs. Parallel Circuits

Series Circuits

In a series circuit, electrons only follow ______. For example, if the toaster and coffee make are plugged into the same outlet and the circuit breaks, both the toaster and the coffee make will stop working.

Parallel Circuits

Go downstairs and check your circuit panel (breaker panel) at home. Note how your house is organized by area (kitchen, bathroom, mudroom, living room, etc...). This is an example of a parallel circuit. In a parallel circuit, electrons can flow down ______. These paths split in the same way water split into different streams from a river. If you blow the fuse regulating the pathway of your fridge, your stove will still work if it is regulated by a fuse on a different pathway.



