

## Re: Q. re: CircuitMaker (Student)

---

*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-08/msg02966.html>

---

- *From:* Peter Bennett <[peterbb@xxxxxxxxxxxxxxxxxxxxx](mailto:peterbb@xxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Sun, 17 Aug 2008 10:29:13 -0700
- 

On Wed, 13 Aug 2008 19:01:17 -0500, Kris Krieger <[me@xxxxxxxxxxx](mailto:me@xxxxxxxxxxx)> wrote:

Hi, I'm fooling around with CircuitMaker student version. I'm curious as to whether anyone can tell me why a battery is not both a voltage source and a current source – I thought that current was necessary to calculate re: powering things, so this is confusing to me.

Also, does anyone know whether I'd therefore have to add both a battery, and an accompanying current source...?

TIA!

– Kris

I think you are misinterpreting the term "voltage source" – perhaps taking it too literally.

In a simulator, a voltage source provides a fixed (or possibly adjustable/programmable) voltage and will deliver whatever current the circuit requires.

—  
Peter Bennett, VE7CEI  
[peterbb4 \(at\) interchange.ubc.ca](mailto:peterbb4@interchange.ubc.ca)  
GPS and NMEA info: <http://vancouver-webpages.com/peter>  
Vancouver Power Squadron: <http://vancouver.powersquadron.ca>  
.