

## **Human Circuit Activity (Student)**

**Materials:**

Energy Stick

**Directions:** Use your Energy Stick to explore how electricity travels. Put one hand on each of the shiny, silver ends of the energy stick. What happens? The Energy Stick should light up and make a buzzing noise. This tells us that electricity can travel through the human body.

**Try it with a partner-** Each partner must hold one side of the Energy Stick, remember to touch the shiny silver piece. Then join hands with your partner to make a complete circle including the energy stick. Does it still light up? What does this tell us? Electricity can travel through multiple bodies. Try it with more than one friend!

**IMPORTANT- if you see someone getting hurt by electricity, DO NOT touch them. It can hurt you too!**



Providing energy education to students in the communities we serve.  
That's our Promise to Michigan.

---

## Human Circuit Activity (Parent Guide)

**NOTE:** This activity requires an online purchase. Allow time for shipping before completing the lesson. An Energy Stick can be purchased online from these websites:

- <http://www.stevespanglerscience.com/products/electricity-energy/energy-stick.html>
- <http://www.enasco.com/product/SB48146B>
- [http://www.amazon.com/Be-Amazing-Toys-Energy-Stick/dp/B004K0DSDC/ref=sr\\_1\\_1?ie=UTF8&qid=1425567119&sr=8-1&keywords=energy+stick](http://www.amazon.com/Be-Amazing-Toys-Energy-Stick/dp/B004K0DSDC/ref=sr_1_1?ie=UTF8&qid=1425567119&sr=8-1&keywords=energy+stick)

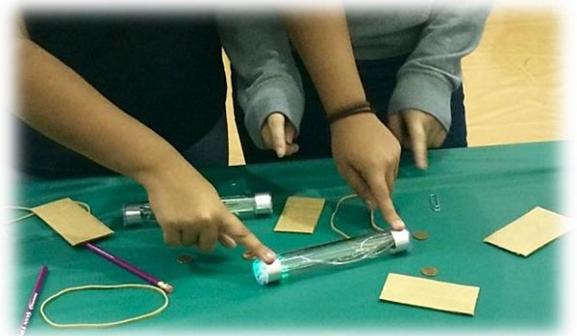
### Materials:

Energy Stick

### Directions:

Have the student explore the flow of electricity using the Energy Stick. In order for the Energy Stick to light up and sound, one hand must be placed on each of the silver, shiny ends of the stick.

- Explain to the student that the human body conducts electricity because of the water inside us. Explain that the energy sticks are safe and are made to be touched, but other items, such as a downed power line, is not safe at all! This is why it is imperative to be safe with electricity so that we don't get hurt!



**Try it with a partner-** Each partner must hold one side of the Energy Stick, remember to touch the shiny silver piece. Then join hands with your partner to make a complete circle including the Energy Stick.

- This tells us that electricity can travel through multiple bodies. You can try this with as many or as little people as you would like. Have the student let go of hands to show that when the circuit is not complete, the Energy Stick will not light up. **Note:** If they see someone getting hurt by electricity (shocked, burned or electrocuted) they should never touch them, as it will hurt them too!



---

For more great energy resources visit:  
[www.ConsumersEnergy.com/kids](http://www.ConsumersEnergy.com/kids)