Electric Connections: A hands-on energy lab - Materials List
With Phil Cook

Wednesday, May 31
7:00 PM Eastern

Participation in hands-on activities is optional but, of course, recommended! To participate, you'll want to have the following supplies handy:

Squishy Circuits:

- A hot plate
- A large beaker
- 200 mL distilled water
- 50 mL salt
- 10mL vegetable oil
- Cream of tartar
- 250 mL flour
- Follow along with Phil's video to make your conductive dough before class. Or, you can just use store-bought Play Doh.

Conductivity Meter:

- String of incandescent holiday lights (not LEDs)
- Aluminum foil
- A 9-volt battery
- A non-conductive flat object such as a Popsicle stick, craft stick, or plastic knife
- Wire strippers or scissors
- Tape
- Several cups
- Water
- Table salt

Circuits:

- A 9-volt battery
- 9-volt battery wire (Phil suggests https://www.amazon.com/Parts-Express-Battery-Clip-Pack/dp/B01IFP0N3U/ref=sr_1_9?crid=3BRAWU8F4OC8P&keywords=9v+battery+wire+electronics+kit&qid=1682948341&sprefix=9v+battery+wire+electronics+kit%2Caps%2C104&sr=8-9)
- Red LED mini-lamps (Phil suggests https://www.amazon.com/OWOFYDR-diffused-Electronic-Component-Indicator/dp/B09B9BYS8V/ref=sr_1_7?crid=3VZJ8H31SCGU0&keywords=red+led&qid=1682948486&sprefix=red+led%2Caps%2C97&sr=8-7)
- Optional: a miniature motor (Phil suggests https://www.amazon.com/Gikfun-Miniature-Motors-Arduino-Projects/dp/B07SQXRSNR/ref=sr_1_3?crid=2FD6DI12UY326&keywords=small+electric+motor+with+wires&qid=1682948563&sprefix=small+electric+motor+with+wire%2Caps%2C94&sr=8-3)