Example materials to purchase (if you do not have similar items in your classroom/lab supply):

- **battery holder (for 2 AA batteries):** such as these five 2AA cell battery 3V clip holder box case with switch for $4.36 at [http://www.ebay.com/itm/New-5-Pcs-2-AA-Cells-Battery-3V-Clip-Holder-Box-Case-with-Switch-Black-/181003986908?pt=LH_DefaultDomain_0&hash=item2a24ada7dc](http://www.ebay.com/itm/New-5-Pcs-2-AA-Cells-Battery-3V-Clip-Holder-Box-Case-with-Switch-Black-/181003986908?pt=LH_DefaultDomain_0&hash=item2a24ada7dc)

- **electronic breadboard:** such as these five mini solderless prototype breadboards with 170 tie points for $15.91 at [http://www.dhgate.com/5pcs-mini-solderless-prototype-breadboard/p-ff8080813d115115013d342aaf06dda.html](http://www.dhgate.com/5pcs-mini-solderless-prototype-breadboard/p-ff8080813d115115013d342aaf06dda.html) or [www.ebay.com](http://www.ebay.com) or [www.amazon.com](http://www.amazon.com)

- **LED light:** such as this pack of 5 LED semiconductors (item# CP33693-00) for $6.20 at [https://sargentwelch.com/store/catalog/product.jsp?catalog_number=CP33693-10](https://sargentwelch.com/store/catalog/product.jsp?catalog_number=CP33693-10)
**wire:** such as this 18 gauge copper wire at [http://www.ebay.com/itm/25ft-200-Ft-18-Gauge-BLUE-RED-Yellow-Black-8-COLORS-Primary-Wire-CABLE/271067773743?_trksid=p2047675.c100005.m1851&_trkparms=aid%3D222007%26algo%3DSIC.MBE%26ao%3D1%26asc%3D24895%26meid%3D8991313873457682189%26pid%3D100005%26rk%3D1%26rkt%3D6%26sd%3D271206667004&rt=nc](http://www.ebay.com/itm/25ft-200-Ft-18-Gauge-BLUE-RED-Yellow-Black-8-COLORS-Primary-Wire-CABLE/271067773743?_trksid=p2047675.c100005.m1851&_trkparms=aid%3D222007%26algo%3DSIC.MBE%26ao%3D1%26asc%3D24895%26meid%3D8991313873457682189%26pid%3D100005%26rk%3D1%26rkt%3D6%26sd%3D271206667004&rt=nc)

**alligator clips:** such as this 20-inch double ended crocodile clip alligator test jumper probe lead wire for $2.29 at [http://www.ebay.com/itm/20-Double-ended-Crocodile-Clip-Alligator-Test-Jumper-Probe-Lead-Wire/181222296525?pt=LH_DefaultDomain_0&hash=item2a31b0cbcd](http://www.ebay.com/itm/20-Double-ended-Crocodile-Clip-Alligator-Test-Jumper-Probe-Lead-Wire/181222296525?pt=LH_DefaultDomain_0&hash=item2a31b0cbcd)

Setup for electrical conductivity tester
Setup for resistance measurements using digital multimeter

Test probes