

Electricity Shopping List

eCamp Electric Lab

We're going to reuse some of the materials listed here that are more expensive, like the motors, batteries, wires, switches, lights, etc. in the Laser Lab and the Robot Lab, so you can get a couple extras if you don't want to tear apart your projects after you've built them.

Note to e-Science students: These materials are from Unit 10.

Materials

- Regular sized latex balloon
- Ping pong ball
- Bubble solution (make your own with 1 cup clear Ivory dish soap + 12 cups cold water)
- Yard stick (AKA meter stick)
- Soup spoon (bigger is better)
- 3 large paper clips
- 8 brass fasteners
- 2 index cards or scraps of cardboard
- [AA battery pack](#) (RS #270-408)
- LEDs (Radio Shack part #[276-026](#), [276-012](#), [276-016](#), [276-311](#), or similar)
- [3VDC motor](#) (RS #273-223)
- 10 [alligator clip leads](#) (RS #278-1157)
- [SPST](#) push-button switch (RS #275-646) or similar
- [1K or 5K-ohm potentiometers](#) (RS #271-1714) OR [25-Ohm Rheostat](#) (RS #271-0265)
- Metal jewelry
- AA batteries for your battery case (Cheap dollar-store “heavy duty” type are perfect. Do NOT use alkaline batteries like Duracell or Energizer!)
- Optional: [Buzzer](#) (Radio Shack #273-053) or siren (#273-079)

Tools

- Tape
- Scissors