

# Shopping List for Advanced Physics

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**This unit is for advanced students** who are completing the complete high school physics course. Once you've completed this course, you have the option of taking advanced placement tests for college. While you can do the entire course entirely on paper, it's not really recommended since physics is based in real-world observations and experiments! Here's the list of materials you need in order to complete all the experiments in the lab.

*Note: Most of the electrical components, like wires, battery holders, and LEDs are going to be used again in the next section of labs.*

## Section 8: Static Electricity

- 2 test tubes or thin glass or plastic
- 2 two wires, one needs to be copper, at least 12 inches long.
- 9 volt battery
- long match or a long thin piece of wood (like a popsicle stick) and a match
- rubber bands
- masking tape
- salt
- 8 AA batteries (cheap dollar-store "heavy duty" type are perfect)
- 4 AA battery cases (Radio Shack # 270-408)
- 9 alligator wires
- LEDs
- paper clip
- penny
- 2 alligator clips
- glass jar (like a clean jam jar)
- large 7-9" latex (not mylar) balloon
- yardstick
- large spoon
- wire coat hanger and sand paper
- aluminum foil
- vice grips or a hacksaw
- foam plate
- foam cups
- wool cloth or sweater
- plastic baggie
- 12 small aluminum pie (tart) pans
- nail (needs to be a little longer than the film canister)
- dried dill (spice)
- vegetable or mineral oil
- two empty, clean soup cans
- long straight pin
- 4 film canisters (or M&M containers)
- neon bulb
- small styrofoam ball
- fishing line or thread
- chopstick
- Fun Fly Stick (also called "Wonder Fly Stick")
- 9V battery clip (and a 9V battery)
- MPF 102 (buy 2 – one for back up)

