

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.

Section 7: Thermodynamics

- alcohol burner or candle with adult help
- balloons
- black spray paint
- bottles of water (2)
- candles
- CDs (3 old ones)
- chemistry stand with glass test tube and holder
- coin
- drill with 1/16" bit
- electrical tape
- electrical wire (3- conductor solid wire)
- fire extinguisher
- fishing line (15lb. test or similar)
- foil wrapper (from stick of gum or candy bar)
- food coloring
- freezer
- ice cubes
- incandescent light (or sunlight)
- index cards
- matches or lighter (and adult help)
- mug with hot water
- nylon bushing (from hardware store)
- old inner tube from a bike wheel
- pack of steel wool
- paper clip
- paper, one sheet of each: white and black
- penny
- pepper
- permanent marker
- plastic bottle
- plastic syringe
- push pin
- raw peanuts
- razor
- rubbing alcohol
- scissors
- silver highlighter (or aluminum foil)
- silver or white spray paint
- small pliers
- soda bottle (2L)
- soda can (4)
- solar drinking bird
- super glue and instant dry
- Swiss army knife (with can opener option)
- tape
- thermal paper ("Liquid Crystal Sheet" – see website for ordering information)
- wire cutters