

University of Massachusetts Amherst
ScholarWorks@UMass Amherst

Nanotechnology Teacher Summer Institutes

STEM Education Institute


2015

Where to Buy Materials for the Activities

Morton Sternheim

University of Massachusetts - Amherst, mmsternheim@gmail.com

Follow this and additional works at: https://scholarworks.umass.edu/stem_nanotech

 Part of the [Atomic, Molecular and Optical Physics Commons](#), [Biochemical and Biomolecular Engineering Commons](#), [Chemistry Commons](#), and the [Electrical and Computer Engineering Commons](#)

Sternheim, Morton, "Where to Buy Materials for the Activities" (2015). *Nanotechnology Teacher Summer Institutes*. 14.
Retrieved from https://scholarworks.umass.edu/stem_nanotech/14

This Article is brought to you for free and open access by the STEM Education Institute at ScholarWorks@UMass Amherst. It has been accepted for inclusion in Nanotechnology Teacher Summer Institutes by an authorized administrator of ScholarWorks@UMass Amherst. For more information, please contact scholarworks@library.umass.edu.

Where to buy some of the materials we used

- Laser Pointers. \$25.95 each. Ultra compact Laser pointer w/ on/off button http://www.calpaclasers.com/laser_pointers.html
- QX5 USB Microscope. \$98.95 <http://www.bluedeals.com/qx5midiblqx5.html>
- Disc Magnets: \$18 / pkg 200. *Only 1/2" in Diameter But Has Terrific Holding Power* http://www.amazon.com/Magnet-Diameter-Terrific-Holding-Power/dp/B000EBTQFK/ref=sr_1_2/002-4695360-0853666?ie=UTF8&s=home-garden&qid=1185482446&sr=8-2
- Mirrors. \$4 each. 7/8 wide x 2 15/16 high mirror www.dollhouseminiatures.com/furniture/mirrors.htm
- Spectrometers. 39.75 Project Star Plastic Spectrometer <http://www.carolina.com/space-science/project-star-plastic-spectrometer/612548.pr?requestid=171901>

[UV materials from Educational Innovations \(www.teachersource.com\)](http://www.teachersource.com)

- Portable UV light - 1 (#UV-635, \$10.95 each)(replaced by #UV-640, July 2011)
- Purple UV beads -1 set (#UV-PUR, \$6.95 per 250 bead package)
- UV Bead Color Guide - 1 set per lab group (#UV-360, \$2.95 each)
- Clear UV blocking glass - 1 set (#FIL-235, \$9.95 per set of two discs)
- Clear UV blocking plastic disks (#FIL-235), \$12.95 per set of 2 disks - replaces item above

This site has 20 x 24 UV blocking single sheets for sale for \$8.00. [UV Blocking sheets](#)

Nanofilters: [Ordering nanofilter kits from Argonide](#)

Ferrofluids: [Nanomedicine and Ferrofluids Activity Materials List](#)

LED's can be bought from many sources. AllElectronics.com, catalog LED-137, has nice leads and a mounting clip.

The atomic microscope CD (which illustrates diffusion, osmosis, gas laws, etc.) can be ordered from:

STARK Design, Inc.
P.O. Box 429
Morristown, NJ 07963
(973) 734-9911

Their website www.starkdesign.com is under construction right now (July, 2011)

Materials for the self assembly activities:

Ceramic Permanent Magnets

<http://www.scientificsonline.com/>

Ceramic Disc Pkg/100 3/8"dia x1/4"

#3042582

About \$8 per package of 100.

The wooden shape manipulatives were from Michael's Crafts on Route 9 in Hadley, as were the corks and the buttons. The wooden plugs, short dowels, and PVC pipe were from a hardware store. Straws and toothpicks were from a grocery store. All were very inexpensive.