

PURCHASING INFORMATION

Where to obtain supplies that are hard-to-find, or items that need to be special ordered

Planetary

Please note that our inclusion of the following retailers does not constitute an endorsement. Retailers are provided for reference purposes only. Note that prices may have changed (these prices represent those provided early 2004).

Lesson/Activity 2.2 - common minerals and rocks

Suppliers	Details	Comments
Frey Scientific P.O. Box 8101 100 Paragon Parkway Mansfield, OH 44903 800-225-FREY Fax: 877-256-FREY www.freyscientific.com	Graphite, Item #: 15586960 10 pack, \$20.10 Quartz, Item # 15587359 10 pack, \$6.65 Basalt, Item #: 15586192 10 pack, \$5.95	Table of mineral density: http://webmineral.com/determin/metallic_minerals_by_density.shtml Table of Earth materials density (includes general rock categories): http://www.mines.edu/fs_home/tboyd/GP311/MODULES/GRAV/NOTES/densities.html

<p>WARD'S Natural Science PO Box 92912 Rochester, NY 14692-9012 800-962-2660</p> <p>www.wardsci.com</p>	<p>To order by item number: http://wardsci.com/cart.asp?quick_order=true&bhcd2=1064937751</p> <p>Graphite, Item # 46 V 0252 10 pack, \$11.50</p> <p>Halite, item # 46 V 3822 10 pack, \$11.95</p> <p>Gypsum, item # 46 V 3782 10 pack, \$12.95</p> <p>Quartz, Item # 46 V 0987 10 pack, \$12.95</p> <p>Basalt, Item # 47 V 1037 10 pack, \$6.25</p> <p>Galena, item # 46 V 3332 10 pack, \$14.95</p> <p>Magnetite, item # 46 V 4847 10 pack, \$6.95</p> <p>Hematite, Item # 46 V 0947 10 pack, \$8.50</p>	
<p>Carolina Biological Supply Co. 2700 York Road Burlington, NC 27215-3398 800-334-5551 Fax: 800-222-7112</p> <p>www.carolina.com</p>	<p>Search the Carolina catalog: https://www3.carolina.com/onlinenecatalog/</p> <p>Graphite, Catalog # 46 WW-GEO3452B 10 pack, \$16.95</p> <p>Halite, Catalog # WW-GEO3459B 10 pack, \$6.50</p> <p>Gypsum, Catalog # WW-GEO3454B 10 pack, \$6.50</p> <p>Quartz, Catalog # WW-</p>	

	<p>GEO3488B 10 pack, \$6.50</p> <p>Basalt, Catalog # WW- GEO1012B 10 pack, \$4.00</p> <p>Galena, WW-GEO3450B 10 pack, \$12.00</p> <p>Magnetite, Catalog # WW- GEO3475B 10 pack, \$6.75</p> <p>Hematite, Catalog # WW- GEO3462B 10 pack, \$8.95</p>	
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Lesson/Activity 4.1 - dry ice

Information is provided in Activity 4.1 on how and where to get dry ice. Further information is provided here:

Dry ice can be obtained from stores listed in the Yellow Pages of the phone book under "Ice."

Grocery stores, ice cream stores, dairies, and fishing supply stores (bait shops) often carry dry ice. People at these stores can also order dry ice for teachers if given advance notice.

Airport food service agencies sometimes use dry ice to keep their product cool. Hospitals use dry ice for the storage and transportation of organs. These agencies may be willing to share dry ice with schools, or direct teachers to suppliers of dry ice.

Lesson/Activity 4.2 - bromothymol blue

Suppliers	Details	Comments
Sargent-Welch P.O. Box 5229 Buffalo Grove, IL 60089-5229 800-727-4368 Fax: 800-676-2540 sargentwelch.com	Product page: http://sargentwelch.com/product.asp?pn=WLC94468%2D07%5FEA Item number: WLC94470-04 Indicator Solution, 0.04% (Aqueous), 100mL \$2.95 (this is plenty for one class, you may want to order more)	Bromothymol blue comes in solution or “Quick Prep Capsules” in various amounts ranging in price from \$2.90 to \$28.60
WARD'S Natural Science PO Box 92912 Rochester, NY 14692-9012 800-962-2660 www.wardsci.com	Product page: http://wardsci.com/product.asp?pn=9446700 Item number: 944 V 6904 Laboratory, Solution, Indicator, 0.01% (Aqueous), 100 mL Bottle \$2.95 (this is plenty for one class)	Bromothymol blue comes in solution or “Quick Prep Capsules” in various amounts ranging in price from \$2.95 to \$27.25

Lesson/Activity 4.2 - elodea, or other thin-leafed aquarium plant

Suppliers	Details	Comments
<p>WARD'S Natural Science PO Box 92912 Rochester, NY 14692-9012 800-962-2660</p> <p>www.wardsci.com</p>	<p>Product page: http://wardsci.com/product.asp?pn=867500</p> <p>Item number: 86 V 7500</p> <p>If Elodea is restricted in your state, the Amazon Sword Plant works well –</p> <p>Product page: http://wardsci.com/product.asp?pn=867510</p> <p>Item number: 86 V 7510</p>	<p>86 V 7500 is Elodea, Pkg. of 12 plants is \$5.45</p> <p>86 V 7510 is one Amazon Sword Plant, \$5.25</p> <p>Both plants should be returned to an aquarium or disposed of in the trash.</p>
<p>Carolina Biological Supply Co. 2700 York Road Burlington, NC 27215-3398 800-334-5551 Fax: 800-222-7112</p> <p>www.carolina.com</p>	<p>Search the Carolina catalog: https://www3.carolina.com/onlinenecatalog/</p> <p>Catalog #: WW-16-2101</p> <p>Note: If <i>Elodea densa</i> is restricted in your state (SC, WA, or ME), Carolina will ship <i>Elodea canadensis</i> instead. (<i>canadensis</i> is smaller than <i>densa</i>.)</p>	<p>Pack of 12 <i>Elodea densa</i> for \$5.30</p>
<p>An easy place to get Elodea, or other thin-leafed aquarium plant, is at a pet store which stocks fish and aquarium supplies. Since only a small plant is called for, a student or colleague with a freshwater aquarium could probably supply a sprig of an appropriate aquatic plant.</p>		

Lesson/Activity 5.2 - hydrochloric acid solution

Suppliers	Details	Comments
<p>Frey Scientific P.O. Box 8101 100 Paragon Parkway Mansfield, OH 44903 800-225-FREY Fax: 877-256-FREY</p> <p>www.freyscientific.com</p>	<p>LIMESTONE CHIPS 5 LB. MFG NO: 04761 Item #: 15583947 Catalog: Frey Scientific 2004 Catalog Page #: 0375 \$10.95</p>	
<p>WARD'S Natural Science PO Box 92912 Rochester, NY 14692-9012 800-962-2660</p> <p>www.wardsci.com</p>	<p>Product page (Hydrochloric acid): http://wardsci.com/product.asp?pn=9703004</p> <p>Product page (coral): http://wardsci.com/product.asp?pn=212319 Item number 21 V 2319</p> <p>Product page (coral): http://wardsci.com/product.asp?pn=680452 Item number 68 V 0452</p> <p>Product page (limestone): http://wardsci.com/category.asp?c=827&ng=i_1 Item number 47 V 4661</p>	<p>Hydrochloric acid solution is available in a variety of amounts and concentrations. Prices range from \$2.25 to \$74.90</p> <p>Item number 21 V 2319 is for 25 lbs of crushed coral \$13.75 (Note that crushed coral can also be found at a aquarium/pet stores where it is sold as a substrate for marine aquariums)</p> <p>68 V 0452 is for a Jar of 10 Stony Coral, Dry <i>Mancina</i> for \$9.75</p> <p>47 V 4661 is for Limestone (Chalk) Testing Chips, Pkg. of 30 for \$8.75</p>
<p>Carolina Biological Supply Co. 2700 York Road Burlington, NC 27215-3398 800-334-5551 Fax: 800-222-7112</p> <p>www.carolina.com</p>	<p>Search the Carolina catalog: https://www3.carolina.com/onlinenecatalog/</p> <p>Catalog #: W-GEO2006B Limestone \$4.00 Pack of 10</p>	