

Outline - Water Quality Activity: Macroinvertebrates to assess water quality - Kolts

Water Quality

- What are the major water quality parameters measured by scientists?
 - Water/air temp, dissolved oxygen, pH, Turbidity/TSS/TDS
- How are these parameters measured?
 - Many require equipment that could be expensive for schools, but temperature and pH are cheap and easy to measure
- Effects of these parameters on organisms

Aquatic Macroinvertebrates as indicators of water quality

- Identifying major groups of aquatic macroinvertebrates
- Invertebrates that are/aren't sensitive to pollution.
- Biotic indices and how they indicate water quality
- Techniques for sampling aquatic invertebrates.

Cherry Creek sampling?

Equipment – Dawn said she had nets and waders that we could use during the workshop. Schools will need nets, buckets, sorting pans, waders, etc. Nets can be really expensive, but the ones below are more reasonable. I prefer the D-shaped nets, but the round and triangular ones work too. Waders are expensive, and you need a variety of sizes as students vary a lot in shoe size.

Secure | <https://www.bioquip.com/search/DispProduct.asp?pid=7410R>



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Heavy Duty Aquatic Nets - Product Details

Heavy Duty Aquatic Nets

Product Photos (Click on photo to enlarge)



Heavy duty, long lasting nets in this series are designed for use by benthologists and entomologists needing a strong net for fresh water collecting, scraping stream bottoms, collecting bottom dwelling organisms, or sweeping in thick vegetation.

Smooth, lacquered, hardwood, handles are 5 feet (152cm) long, 1-1/8" (2.9cm) diameter, permanently attached with epoxy adhesive to a 5/16" (.81cm) cadmium plated steel net ring. Nets are 70" (178cm) overall.

Net bags are made of heavy cotton and polyester canvas, stitched with non-rotting thread. They feature a white, 500-micron mesh Nyltex screen bottom placed 8" (20cm) below the net rim. They also include a 4" (10cm) skirt to protect the mesh from snags and wear, have internal Nylon piping, and are secured to the ring by heavily plated hog rings. For collecting very small aquatic insects or other organisms, a DN bag with 150 micron mesh Nyltex Nylon screen is available for use with the 7412D net.

Diameter for the 7410R round net bag, and length of the side of the 7410T triangular net bag is 10" (25cm). Flat side of the 7412D net bag measures 12" (30.5cm). Opening of the 'D' shaped net permits simple insertion of collecting pan or other container. Replacement net bags with plated hog ring fasteners are available.

Nets weigh 3 lbs. Due to their length, they must be shipped by U.P.S., FedEx, or domestic Parcel Post; oversize (30 lb.) rate and \$1.00 excessive length surcharge apply to these aquatic nets.

See [7512D](#) for description of a two-piece model of the 12" diameter net that can be shipped via any type of carrier.

7410R	Aquatic Net, 10" Dia. Bag, Round	\$57.45
7210RR	Aquatic Net Bag, 10" Round, with Hog Rings	\$13.15
7410T	Aquatic Net, 10" Diameter Bag, Triangular	\$55.35
7240TT	Aquatic Net Bag, 10" Triangular, w/Hog Rings	\$13.15
7412D	Aquatic Net, 12" Dia. Bag, D Shape	\$59.85