

# EQUIPMENT

BOOKING NUMBER	EQUIPMENT	COPIES
18133	<p><b>TI-73 GRAPHING CALCULATOR (classroom set of 10)</b></p> <p>A graphing calculator that contain features for the middle grades mathematics and science curricula. The calculator offers: stacked fractions display that allows students to explore fractions and percents; graph scatter plots, pie charts, bar graphs and test lines of best fit. This calculator can be used to analyze data collected from CBL 2 and CBR.</p>	1
18134	<p><b>TI-73 VIEWSCREEN</b></p> <p>TI ViewScreen enlarge and project the image of a calculator display so an entire class can view it. May be used with any standard overhead projector. The ViewScreen set includes: Carrying case, ViewScreen panel, AC adapter, Guidebook, ViewScreen calculator, unit-to-unit link, calculator poster, and transparency.</p>	1
18135	<p><b>TI-83 GRAPHING CALCULATOR (classroom set of 10)</b></p> <p>A graphing calculator for use in algebra through pre-calculus, biology to physics. It offers multiple graph styles, table/graph split screen, data analysis, and modeling. This calculator can be used to analyze data from CBL 2 and CBR.</p>	1
18136	<p><b>TI-83 VIEWSCREEN</b></p> <p>TI ViewScreen enlarge and project the image of a calculator display so an entire class can view it. May be used with any standard overhead projector. The ViewScreen set includes: Carrying case, ViewScreen panel, AC adapter, Guidebook, ViewScreen calculator, unit-to-unit link, calculator poster, and transparency.</p>	1
18142	<p><b>TI – Graph Link &amp; CD</b></p> <p>Versatile software allows user to transfer files between the calculator and the computer. Compatible with TI-73, TI-82, TI-83, TI-83+, TI-86, TI-89 TI-92 and TI-92+</p>	2
18136	<p><b>CBL 2 (Calculator Based Lab)</b></p> <p>This is a portable, handheld, battery operated device for collecting and analyzing “real-world” data from scientific probes. The data collected can be retrieved by the TI-73, TI-82, TI-83. The device comes with a temperature, light, voltage probes.</p>	20
18144	<p><b>CBR (Calculator Based Ranger)</b></p> <p>A device to be used with a graphing calculator to collect motion, distance, velocity and acceleration data. Uses the unit-to-unit cable that comes with the CBR to connect to TI-73.</p>	5
18150	<p><b>CENTRIFIC CENTRIFUGE</b></p> <p>Mini bench top centrifuge for educational labs. This trouble-free model spins 6 tubes and features a built-in, 15-minute timer.</p>	2

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18166	<b>SPECTROPHOTOMETER</b>  Performs well in the analysis of chlorophyll, chemical, biological fluids, equilibrium determinations, Beer's law studies, and water analysis. Readings are taken on a large digital display that can display either absorbance or transmittance readings.	2
18171	<b>eTrex PERSONAL NAVIGATORS (classroom set of 10)</b>  These are the most basic GPS (global position system) unit available. These handheld GPS unit has simple menus and logical operations. It will tell you how fast you are going, your average speed, maximum speed, trip time, trip distance, and sunrise/sunset time. This is a perfect beginner unit to introduce your middle/high school students to use of GPS units. Data or waypoints may be recorded that may be incorporated into a GIS (geographic information systems) program. Includes user guide.	1
18172	<b>MAGELLAN GPS 315 (1 unit)</b>  This is a more advanced version of the Garmin eTrex GPS unit. The Magellan unit has a 12 parallel channel receiver for superior tracking, an updateable 15,000 point database, nine graphic navigation screens which clearly show speed, heading distance, bearing to waypoint, position and much more. Includes an owners manual and quick eference guide.	1
<b>Set #2</b> <b>Set #3</b>	<b>LEGO Mindstorms Robolab Team Challenge Set</b>  This kit contains all the parts RCX and over 700 LEGO elements, attaching sensors, motors, gears, and other LEGO bricks to build a completely autonomous robot. The Robotics Invention System 2.0 includes detailed instructions for building modular "plug-and-play" robots: The Roverbot—a steady going robot that moves around, avoids obstacles, and can follow a line; the Acrobot—a fast moving robot that flips and dances; and the Inventorbot—a smart, attentive robot that can greet you and help you in many other ways.  You will need a minimum computer operating system of Windows 98 to program the RCX, the brains of the robot.  Contents of the LEGO MINDSTORMS Robotics Invention System 2.0 <ul style="list-style-type: none"> <li>• RCXa Microcomputer</li> <li>• Robolab Software CD-ROM</li> <li>• Constructopedia, PC &amp; Mac Cables</li> <li>• 3 Guided Challenges</li> <li>• 6 Pro Challenges</li> <li>• USB Infrared Transmitter</li> <li>• 718 LEGO pieces</li> <li>• 2 Motors</li> <li>• 2 Touch Sensors</li> <li>• 1 Light Sensor</li> </ul>	2
18096	<b>GROUNDWATER MODEL</b>  The "hands-on" groundwater flow model depicts the interaction of groundwater with rainfall, a stream, a lake, a landfill, and two drinking water wells. The model resembles an aquarium filled with sand and gravel. Red dye is used to indicate the effects of groundwater pollution. Includes simple instructions and diagrams.	1

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18132	<p><b>INVESTIGATING GROUNDWATER / The Fruitvale Story</b></p> <p>Investigating Groundwater is an educational module program highlighting chemicals and their effect on society. Students investigate an area in which test wells indicate the presence of unsafe levels of pesticide in the groundwater. They learn the factors that affect ground water movement and apply this knowledge to locate and clean up the groundwater contamination. As a result they begin to appreciate both the power and limitations of science. Module contains hardware, gravel, sand, clay and chemicals used for testing. Can be booked out by itself or with Groundwater Model #18096.</p>	1
EQ-7	<p><b>ENVIROSCAPE</b></p> <p>This tabletop model (3' x 3') of a community, with a stream and lake included, is perfect for demonstrating how pollution can combine with runoff from various land uses, such as forests, farmlands, streets, neighborhoods, a wastewater treatment plant, a gas station, construction sites, and industry to reach lakes and streams. A teaching manual is included.</p>	1
EQ-8	<p><b>STREAM TABLES (classroom set of 5)</b></p> <p>Contains all you need for creating streams and other landforms, all in a convenient tabletop size. Comes with five plastic trays with drain (48"L x 14" W x 3"H), stream trough, elevating sedge, 6' siphon tube and clamp, plus an instruction manual and sample lesson plans.</p>	1
18149	<p><b>WATER CHEMISTRY TESTING KIT - Hach Company (Water, Water Everywhere Education Laboratory)</b></p> <p>This portable laboratory kit offers one easy-to-store, easy-to-use, portable system to test a complete range of water quality parameters. Students can easily follow the step-by-step instructions to obtain accurate, high- confidence results. Laboratory kit include the Water, Water Everywhere curriculum, written for use with the DR/820 Colorimeter. It covers the basics of water quality, the water cycle, and more. Includes DR/820 Colorimeter, reagents and apparatus, and curriculum.</p>	1
EQ-6	<p><b>WATER CHEMISTRY TESTING KIT - LaMotte Company</b></p> <p>Contains portable water chemistry kits for testing the following water quality parameters: turbidity, dissolved oxygen, pH, nitrate-nitrogen, phosphate, alkalinity, temperature, iron and copper. Laminated instructions allow students too easily follow the step-by-step test procedures.</p>	1
EQ-11	<p><b>AQUATIC EXOTICS TRUNK</b></p> <p>This trunk is available through Isle Royale National Park (906-482-0986). The trunk includes an activity guide, video, and specimens of the five main exotics in the Great Lakes ecosystem: spiny waterflea, sea lamprey, zebra mussels, purple loose-strife, and the ruffe.</p>	1

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EQ-4	<b>FOREST EDUCATION KIT</b>  This kit contains equipment and reference books to be used in ecological studies of a forest. The kit includes: <ul style="list-style-type: none"> <li>• Shrub and Tree Identification Books</li> <li>• Peterson and Golden Field Guides: Birds, Wildflowers, Trees &amp; Shrubs, Insects, and Mammals</li> <li>• Woodland Stewardship Manual</li> </ul> <i>Equipment:</i>  Set of 10 Diameter Tapes 12" Increment Borer Set of 10 Angle Gauges Clinometer 100ft/30m Fiberglass Tape	2
EQ-9	<b>ROCK ID ACTIVITY KIT</b>  Books: Nat'l Audubon Society First Field Guide – Rocks and Minerals First Field Guide – Night Sky Rock and Mineral Identification for Engineers Maps: Geologic Map of the Great Lakes Region Tools: Pick, scratch plate, acid bottle	1
EQ-10	<b>WETLANDS TRUNK</b>  This trunk is available through Isle Royale National Park (906-482-0986). The trunk includes a variety of lessons appropriate for upper elementary and middle school, plus laminated wetland plant flashcards, a wetland puppet show and puppets (Bobby Beaver, Countess Von Great Blue Heron, and Nicholas Newt), and more.	1
EQ-48	<b>WOLF BOX</b>  These popular trunks contain a wolf pelt, skull, children's literature about wolves, and a variety of lessons for teaching about this threatened wildlife species.	1
EQ-5	<b>Making Tracks Kit</b>  This tracks kit includes a sampler kit of 16 different wildlife tracks...many common to the area, along with lesson plans, information, instructions, books and resources to make casts of your favorite wildlife tracks.	1
EQ-14	<b>Tracks &amp; Scat Kit</b>  Stays at MTU Office and is used for programs.	1
EQ-13	<b>Owl Activity Kit</b>  This kit contains two owls, a great-horned owl and an eastern screech owl to display in your classroom while you teach about owls in the forest and meadow food webs. The kit also contains lesson plans and activities for dissecting owl pellets and owl ecology, plus owl references. Owl pellets are not included. (The owls are on loan from Michigan Technological University School for Forest Resources and Environmental Sciences.)	1