

ENVIRONMENTAL MANAGEMENT

This recommended list is based upon a classroom size of 25 students. All costs are estimated and should be adjusted and verified with current quotes. No specific equipment vendor or brand names are endorsed due to various possibilities, and school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for an Environmental Management program.

CLASSROOM EQUIPMENT**TOTAL: \$16,710**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Workstations w/chairs	\$400	\$10,000
1	Teacher Workstation w/chair	\$400	\$400
1	Teacher Computer	\$900	\$900
1	Presentation Equipment (e.g., interactive whiteboard (IWB), or other interactive display system with software and accessories)	\$3,000	\$3,000
1	Networkable Laser Printer (black/white or color)	\$400	\$400
1	Vertical File Cabinet (lockable)	\$330	\$330
2	Storage Cabinets (36" x 12" x 72") (lockable)	\$300	\$600
2	Bookcases (36" x 12" x 42")	\$115	\$230
2	White Boards (4' x 8')	\$110	\$220
1	Eyewash Station	\$300	\$300
1	Fire Extinguisher	\$130	\$130
1	Sink with Soap Dispenser	\$100	\$100
1	First Aid Kit	\$100	\$100

PROGRAM EQUIPMENT**TOTAL: \$67,900**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Computers (enhanced memory/speed, download capable)	\$1,500	\$37,500
5	Tablets (enhanced memory/speed)	\$1,000	\$5,000
1	Technology Storage/Charging Station (optional)	\$2,000	\$2,000
1	Drone (for geographical information system/global positioning system (GIS/GPS) aerial views and interpretation)	\$3,000	\$3,000
12	Stereo Microscopes	\$1,000	\$12,000
1	Bench-top 8-inch Sieve Shaker	\$800	\$800
1	3D Printer (and supplies)	\$600	\$600

PROGRAM EQUIPMENT (CONT.)

QTY	ITEM DESCRIPTION	UNIT	TOTAL
12	Compound Microscopes	\$500	\$6,000
1	Action Camera (with accessories)	\$500	\$500
1	Soil Oven	\$500	\$500

INSTRUCTIONAL MATERIALS**TOTAL: \$4,000**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Textbooks (Approved by NDE)	\$100	\$2,500
1	Teacher Textbook Edition and Resources	\$500	\$500
1	Water Quality Assessment Curriculum	\$1,000	\$1,000

INSTRUCTIONAL SUPPLIES**TOTAL: \$14,685**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
12	Water Testing/Monitoring Kits	\$450	\$5,400
1	Digital Camera (with accessories)	\$400	\$400
1	Data Collection Interface Device	\$350	\$350
1	Carbon Dioxide (CO ₂) Gas Sensor	\$300	\$300
1	Comprehensive Mineral Collection	\$300	\$300
1	Wastewater Treatment Kit	\$300	\$300
6	Dissolved Oxygen Probes	\$250	\$1,500
1	Coriolis Effect and Atmospheric Circulation Kit	\$250	\$250
1	Air Pollution and Vehicle Emissions Kit	\$200	\$200
1	Soil Formation and Properties Kit	\$200	\$200
1	Soil Productivity Kit	\$200	\$200
6	Soil Moisture Probe	\$150	\$900
1	Turbidity Sensor	\$150	\$150
1	Agriculture and Feeding a Growing Human Population Kit	\$150	\$150
12	Hazardous Materials Test Kits	\$125	\$1,500
1	Advanced Rock Collection (105 Specimens)	\$120	\$120
6	Conductivity Probes	\$100	\$600
1	Indoor Air Quality Meter	\$100	\$100
6	pH Sensors	\$90	\$540

INSTRUCTIONAL SUPPLIES (CONT.)

QTY	ITEM DESCRIPTION	UNIT	TOTAL
6	Relative Humidity Sensors	\$75	\$450
5	Erlenmeyer Flask Sets (50 mL, 125 mL, 250 mL, 500 mL, and 1,000mL)	\$30	\$150
5	Plastic Beaker Starter Packs, Polypropylene	\$25	\$125
Varies	Computer Accessories (cases, covers, etc.) (optional)	\$500	\$500

OTHER**TOTAL:****\$300**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Occupational Safety and Health Administration (OSHA) Instructor Training	\$300	\$300

CATEGORY TOTALS:

CLASSROOM EQUIPMENT	\$16,710
PROGRAM EQUIPMENT	\$67,900
INSTRUCTIONAL MATERIALS	\$4,000
INSTRUCTIONAL SUPPLIES	\$14,685
OTHER	\$300
ESTIMATED PROGRAM TOTAL	\$103,595