\$17,080

\$300

\$100

\$100

TOTAL:

\$300

\$100

\$100

\$56,500

ENVIRONMENTAL ENGINEERING

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, but 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 Engineering program.

TOTAL:

CLASSROOM EQUIPMENT

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Workstations w/chairs	\$400	\$10,000
1	Teacher Workstation w/chair	\$400	\$400
1	Teacher Computer (enhanced memory/storage, download capable)	\$1,400	\$1,400
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

PROGRAM EQUIPMENT

First Aid Kit

Eyewash Station

Sink with Soap Dispenser

1

1

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Computers (enhanced memory/speed, download capable)	\$1,500	\$37,500
1	Technology Storage/Charging System (optional)	\$2,000	\$2,000
6	Advanced Robotic Kits	\$1,750	\$10,500
1	Networkable Large Format Color Plotter	\$1,200	\$1,200
1	Storage Cabinet for Sanitized Eye Protection Equipment	\$800	\$800
6	Microscopes (for handling water quality samples)	\$750	\$4,500

\$4,000

\$11,355

TOTAL:

TOTAL:

INSTRUCTIONAL MATERIALS

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Textbooks (Approved by NDE)	\$100	\$2,500
1	Teacher Textbook Edition and Resources	\$500	\$500
1	Instructional Resources (3D computer-aided design and drafting [CADD] software, manuals, posters, etc.)	\$1,000	\$1,000

INSTRUCTIONAL SUPPLIES

QTY	ITEM DESCRIPTION	UNIT	TOTAL
6	Water Samplers	\$300	\$1,800
6	Ecological Water Lab Test Kits (or equivalent)	\$200	\$1,200
6	Biofuel Test Kits (or equivalent)	\$200	\$1,200
7	Dual-Range Force Sensors	\$115	\$805
2	Compact Scales (2000 g x 1 g)	\$85	\$170
7	Variable DC Power Supplies, 18V 0-2A	\$65	\$455
15	Digital Multimeters (DMM)	\$25	\$375
15	Dial Calipers, 6", Steel (graduated to 0.001 inches)	\$20	\$300
Varies	Environmental Project Supplies (pH test kits, beakers, volume measurement tools, test tubes, test slides, etc.)	\$1,200	\$1,200
Varies	Project Supplies (LEDs in various colors, single AAA battery holders, push-button switches, resistor kits and wires, solderless breadboards, alligator leads, masking tape, lo-temp full-size glue gun, glue sticks, various syringes, items for sorting, etc.)	\$1,000	\$1,000
Varies	Supplies (various types of paper, printer ink, sketching pencils, lead, erasers etc.)	\$1,000	\$1,000
Varies	Tools and Hardware (25' metal tape measures, clamp lights and bulbs, adjustable wrenches, wrench sets, wire strippers, needle nose pliers, locking pliers, hex key sets, hacksaws and blades, files and file handles, hickory hammers, drill bits, precision screwdriver sets, S-hooks, utility knives and blades, etc.)	\$800	\$800
Varies	Computer Accessories (cases, covers, etc.) (optional)	\$500	\$500
Varies	Personal Protective Equipment (PPE) (gloves, glasses/goggles, etc.)	\$300	\$300
Varies	Clamps (various sizes)	\$250	\$250

OTHER TOTAL: \$300

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

CATEGORY TOTALS:

ESTIMATED PROGRAM TOTAL	\$89,235
OTHER	\$300
Instructional Supplies	\$11,355
Instructional Materials	\$4,000
PROGRAM EQUIPMENT	\$56,500
CLASSROOM EQUIPMENT	\$17,080