

Alabama CTE Equipment List

This list is based on a classroom size of 25 students and meets minimum standards. All costs are estimated. No specific equipment vendor or brand names are endorsed, 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 a Plant Science program and are not meant to dictate the number of students that can safely fit in a classroom and/or laboratory.

Cluster: Agriculture, Food, and Natural Resources
Program: Plant Science

CLASSROOM EQUIPMENT

TOTAL: \$2,300

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Computer with Current Operating System	\$500-\$1,000	\$500
1	Laser Printer, color	\$500	\$500
1	Teacher/Student Workstation – to include one large table or smaller tables, chairs, or a different type of seating area	\$800	\$800
1	Technology- TV/Computer connection with video streaming capability	\$500	\$500

PROGRAM EQUIPMENT (Items over \$250)

TOTAL: \$30,800

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air compressor	\$1,600	\$1,600
1	Chain saw	\$400	\$400
1	Compass, staff	\$650	\$650
1	Drill press, 15", variable speed	\$1,400	\$1,400
1	Flat File, 10 drawers	\$1,300	\$1,300
1	GPS equipment (with GIS capabilities)	\$600	\$600
1	Greenhouse, tables, thermostat, heaters, fans, etc. (280 sq. ft. minimum)	\$20,000	\$20,000
1	Hypsometer	\$450	\$450
1	Microcentrifuge	\$250	\$250
1	Microscope	\$300	\$300
1	Pressure Washer	\$350	\$350
1	Saw, Compound Miter	\$600	\$600
1	Tiller, Rotary	\$1,000	\$1,000
2	Water hose 100'	\$300	\$600
1	Water quality test kit (LaMotte 363302)	\$300	\$300
2	Work bench, wooden	\$500	\$1,000

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$10,557

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air Hose, 50'	\$50	\$50
1	Allen wrench set (metric & standard)	\$40	\$40
1	Angle grinder	\$100	\$100
10	Anvil pruner shear	\$30	\$300
10	Architect's scale	\$15	\$150
1	Ascenders	\$100	\$100
25	Automatic and/or Mechanical Pencils	\$2	50
1	Axe	\$75	\$75
1	Bench Vise, 6" or larger	\$150	\$150
1	Bit Driver Set (Hex or Allen and Torx)	\$50	\$50
1	Bow saw	\$20	\$20
1	Brush cutter	\$25	\$25
1	Brushes, Paint	\$10	\$10
10	Bypass pruner	\$20	\$200
10	Calculator	\$5	50
1	Carabiner set	\$60	\$60
1	Cat Paw Nail Digger	\$25	\$25
1	C-clamps (4, 6, 8, 10, 12 in.)	\$10	\$10
1	Chemical facial respirator (for protection against harmful dust, sprays, pesticide vapors)	\$175	\$175
1	Chisel, Wood Set	\$35	\$35
10	Circle Template	\$6	\$60
1	Clamps, assorted (metal/wood)	\$25	\$25
1	Clamps, Bar	\$20	\$20
1	Climbing rope	\$130	\$130
1	Clinometer	\$150	\$150
1	Compass, mirror-sighting, Azimuth	\$20	\$20
5	Compasses, drafting (Bow, Beam, and Drop Bow)	\$40	\$200
1	Countersink bit set	\$10	\$10
1	Diameter Tape, Tree	\$45	\$45
1	DNA Extraction Kit (Fruit)	\$75	\$75
5	Drafting Brush	\$10	\$50
10	Drafting Tape	\$10	\$100
10	Drafting tool kit	\$60	\$600
1	Drill bit set, metal/wood	\$50	\$50
1	Drill, portable power, variable speed, reversible	\$200	\$200
1	Electric Chainsaw Sharpener	\$100	\$100
10	Engineer's scale	\$25	\$250
10	Erasers (Pencil, Ink, and Plastic)	\$5	50
5	Erasing Shield	\$2	\$10
1	Extension Cord, 12/3, 25'-100', Grounded	\$80	\$80
1	Fertilizer spreader	\$75	\$75
1	Figure-eight descenders	\$15	\$15

1	File assortment	\$40	\$40
1	First aid kit	\$35	\$35
1	Flask, 500ml	\$10	\$10
10	Floral Snips	\$12	\$120
5	Garden hoe	\$35	\$175
5	Garden trowel	\$15	\$75
1	Graduated Cylinder (500ml)	\$20	\$20
1	Gram scale electronic balance (1gram-4 pounds)	\$150	\$150
1	Hacksaw	\$20	\$20
1	Hammer, Ball Pein, (16-32 oz.)	\$17	\$17
1	Handsaw	\$25	\$25
30	Hard hat (per student)	\$20	\$600
10	Hedge shears	\$35	\$350
1	Hot glue guns	\$20	\$20
10	Irregular Curves Template	\$8	\$80
1	Ladder (6'-14' Step)	\$100	\$100
1	Ladder, 24' Extension	\$200	\$200
1	Lanyard	\$60	\$60
5	Lettering Guide	\$20	\$100
1	Magnetic Pick-up Tool	\$20	\$20
1	Microcentrifuge Tubes (50)	\$100	\$100
1	Microscope Accessory Kit	\$150	\$150
1	Nut Driver Set (Metric)	\$65	\$65
1	Nut Driver Set (Standard)	\$65	\$65
1	PH meter	\$60	\$60
1	Pipe wrench	\$30	\$30
1	Plier, multi-purpose groove joint	\$20	\$20
1	Pliers, combination slip joint	\$20	\$20
1	Pliers, diagonal cutting	\$15	\$15
1	Pliers, lineman side cutting	\$10	\$10
1	Pliers, Locking	\$15	\$15
1	Pliers, long needle nose side cutting	\$10	\$10
1	Pole saw	\$50	\$50
1	Post hole digger	\$50	\$50
10	Pruning saw	\$25	\$250
10	Pruning shears	\$20	\$200
1	PVC cutter	\$50	\$50
5	Rake, flathead	\$35	\$175
5	Rake, spring back lawn	\$18	\$90
30	Safety Glasses/Goggles (per student)	\$8	\$240
1	Safety Snap Hooks	\$15	\$15
1	Saw, Jig, variable speed	\$100	\$100
1	Scale, 2# capacity	\$50	\$50
10	Scissors	\$12	120
1	Screwdriver, assorted + & -	\$25	\$25

10	Shovel, round point	\$40	\$400
5	Shovel, square point	\$40	\$200
1	Siphon mixer (w/ backflow preventer)	\$32	\$32
1	Sling set	\$200	\$200
1	Socket set, English	\$60	\$60
1	Socket set, Metric	\$60	\$60
1	Soil probe	\$55	\$55
1	Soil Test Kit	\$20	\$20
3	Spade, long blade transplanting	\$60	\$180
1	Sprayer, 3 gallons	\$35	\$35
1	Square, Combination	\$10	\$10
1	Square, Framing	\$15	\$15
1	Square, Speed or Try	\$10	\$10
5	Square, T – 4'	\$18	\$90
1	Tape Measure (16'-50')	\$14	\$14
1	Tape, Measure (100')	\$25	\$25
1	Tin snips set (left, right, center)	\$30	\$30
5	Tree scale stick (Biltmore)	\$15	\$75
5	Triangle, 30/60 degrees and 45 degrees	\$5	\$25
5	Triangular Scales (Architect, Civil Engineer, Metric)	\$15	\$75
1	Tubes, Bacteriological Culture (15ml)	\$3	\$3
1	Vise clamps	\$14	\$14
1	VOM, multi tester/clamp on current tester	\$150	\$150
2	Water wand	\$25	\$50
1	Wheelbarrow	\$200	\$200
1	Whiteboard with Markers	\$175	175
1	Wood bits, Power set	\$15	\$15
1	Wood Rasp Set	\$12	\$12
1	Wrench, Adjustable Set (6", 8", 10", 12")	\$25	\$25
1	Wrench, Combination Set (English & Metric)	\$120	\$120

Category Totals:

Classroom Equipment	\$2,300
Program Equipment	\$30,800
Instructional Supplies	\$10,557
Estimated Program Total	\$43,657