

Pre-Engineering (PLTW)

Equipment List

ITEM DESCRIPTION
Student Computer
Back Saw
Bastard-Cut Mill File
Butter Knife, metal
Classroom Storage Cabinet
Colored Permanent Markers
Desktop 3-Hole Punch
Digital Camera
File Handle
Meter Stick
Miter Box
Needle Nose Pliers
Ruler, Plastic - 10 pack
Safety Glasses - 12 pack
Scissors - 12 pack
SD Card
Storage Organizer
VEX Gateway Kit
VEX Gateway Transition Kit
VEX Performance Tool Kit
2 Amp Multi-Output Power Supply B27: B71 B27: B73 B27: B74 B27: B69
Acrylic Balls 1/2" - 50 pack
Adjustable Wrench, 8 in, 1.25 in max opening
Alligator Leads Set of 10 Leads
Architectural Scale, 12" Triangle with 6 Divisions, engraved
Auto Level Nikon #AX2S, 20X Magnification with stadia lines
Banana to Alligator Test Lead Set
Banana to reinforced Test Pin Lead Set, 36" red and black
Bastard-Cut Mill File, 8 inch
Brass bottom pan, 8" for soil sieve
Brass Cover, 8" for sieve pan
Bucket, 6-gallon, plastic with handle
Building Block set, wooden painted, 8 block shapes
Carabiner Shuttle pens
Chain, 2-foot length, 3/4-inch length links
Civil Engineering Scale, Triangular, White Plastic
Clamp Light, Reflector, white 6' cord, each
Combination Square
Compact Scale, 1000g x .1g accuracy
Compact Scale, 2000g x 1g
Compression and extension springs, assorted small
Concrete Block
Cordless Drill

Crucible Tongs
Delrin Balls - pack of 10
Dial Calipers, 6-inch, steels, graduated to .001 inches
Digital Camera, 10.0 megapixel
Digital Multimeter Super Economy Plus DMM
Dremel 3d Printer Bundle for IED
Drill Press Vise, 4" capacity
Easy Cutter
Eye screws, #4 size, (25 pack)
File handle for 8" to 10" files, pack of 5
Fishing snap swivels (any size, 12 pack)
Gauge block, Steel
Glue Gun, Lo-Temp Full Size, 110 Volt
Graduated Cylinder, 100 mL, Polypropylene, case of 12
Hack saw, for 0" or 12" blade, d-handle, each
Hand Lenses, 3x magnification
Headphones, basic, 5 pack
Hex Key set folding, 9 sizes
Hickory Hammer, 16 oz
Hook Up Wire 22 Gauge, Solid, Black 25 feet
HSS Drill Bits, 1/16" - 1/2" by 64ths, with case, 14 pieces
IED Material Testing Kit
IED Metal Dowel Pin Kit
Instant Read Probe Thermometer
Jaw style/claw staple remover
Lamp base E10
Locking Pliers, 7" 1 5/8" curved jaw, each
Lynx motion PLTW Robotic Arm Kit (assembled) w/ base
Magnetic Wand, 1 piece
Melamine board, 4ft x 8 ft, cut into four count 2 ft x 4 ft boards
Mini push button switch, 10 pack
Momentary switch, 20 pack
Multipurpose Wire Stripper and Cutter for Wire AWG 14 to 24
Needle Nose Pliers, 5-inch, 5 pack
Nitinol Memory Wire, 1 ft
Ohaus Triple Pro Balance, 2610 g capacity, 0.1 g Sensitivity
Paper Cutter, 12 inch cut length
PLTW IED VEX IQ Kit
Precision Rubber Mallet, 16 oz.
Protractors, Semicircular Transparent, 12 pack, 3.5 inch
PVC Pipe, Schedule 40, 1" x 24"
Reamer
Resistor Kit, 365 Piece, 1/4 Watt
Rod Level, Seco
RSR Solderless Breadboard Model MB106
RSR Variable DC Power Supply 18V 0-2A
Rubber Mallet, 16 oz.
Ruler, clear plastic, 12 inch / 31 cm, metric and English, 10 pack
Safety Glasses, 12 pack, black frame
Scissors, 7-inch, plastic handle, pointed tip - 12 pack

Screwdriver Set, 12-piece, slot and Phillips tips
SD Card, 8 GB+ (for use with digital camera)
Self-healing cutting mat - 11.8 in x 8.7 in - pack of 6
S-Hook, 1.75-inch, pack of 10
Sieve, Soil Testing, #4, 8" Dia
Sieve, Soil Testing, #40, 8" Dia
Single AAA-battery holders, 10 pack
Slide Staple Remover
Slip joint pliers, 8" L, milled jaws, each
Socket Set, 3/8 in. Drive SAE/Metric, 19-Piece
Solderless Bread board with 300 tie points
Spring Clamps, 3-inch jaw opening
Spring Scale, Push and Pull, 1 Kilogram (10.0 N capacity)
Steel Balls, 1/2 inch, 100 pack
Storage Organizer, 4 pack
Student Computers
Syringes, 10 cc/mm, 10 pack, standard tip
Syringes, 20 cc/mm, 10 pack
Syringes, 30 cc/mm, 10 pack, standard tip
Tape measure, steel, 25 feet with thumb lock
Tape measure vinyl (10 pack), 60" length, inch, and CM
Thermodynamics Heat Box Classroom set (3 units)
Trammel toy base - 5 pack
Trigger Bar Clamp, Medium, 12 inches, 2 pack
Trigger Bar Clamp, Medium, 6 inch
Tripod, Aluminum Extension Legs with shoulder strap
Utility Knife, metal, with 5x replacement blades
Vernier Dual Range Force Sensor
Vernier Go! Link
Vernier Stainless Steel Temperature Probe
VEX IQ Pin Tool (10-pack)
VEX POE/CIM Kit - Cortex
VEX POE/CIM Transition Kit - New V5
Webcam, generic USB,
Weight, Dumbbell 2ld, 1 pair
Weight/Dumbbell, 1lb, 1 pair
Wood Round Balls, 1/2 inch diameter, 100 pack
Wrench Set, 9 pence, SAE
3/32" Hex Keys (8-pack)
Air Compressor Hose, 25-foot length
Air Compressor, Portable, 5 gal. tank
Alligator Leads Set of 10 Leads
Ball End, 1/4"
Band saw, Bench top, 9" throat, 115V, 1/5 HP, Tilting
Bench Mill 6100 CNC Milling Machine
Connector Socket, 22-26 AWG, Tin Crimp, 100 pack
Drill press, bench top, 8", 5-speed, 1/3HP, 1Ph, 120V, each
Edge Finder
End Mill Tool, square, 0.25-inch diameter, 1.5-inch length
End Mill, 1/8"

End Mill, 3/8"
Engraver Drill Bit
Headphones, basic, 5 pack (for audio in course & assessment)
Height offset sensor
Hex Key Set, 10 Piece Metric
Hex Key Set, folding, 9 sizes
Hickory Hammer 16oz
Hook Up Wire 22 Gauge, Solid, Black 25ft
Hook Up Wire 22 Gauge, Solid, White 25ft
HSS Drill Bits, 1/16" - 1/2" by 64th, with case, 14 pieces
Jaw style, claw staple remover
Male Headers, 20 x .025-inch posts, 10 pack
Pliers, curved jaw slip joint, channel lock
Stopwatch, handheld, LED 10 pack
Wrench set, 10-piece, Metric
2 Amp Multi-Output Power Supply
Battery Holder, 4 x AA Capacity, 10 pack
Desolder Pump with Tip
Digital Logic Probe
Green LED - 5 mm, 1.9 V, 100 pack
Hack saw, for 10" or 12" blade, d-handle, each
Lead Free De-Soldering Braid Rosin, .05 inch, 5 pack
Lighted Magnifier, 4x Magnification
Lighted Magnifier, lens free
Mini Table Vise, 1.5 inch
Parallax Student DE Bundle with Arduino
PLTW Digital Electronics Integrated Circuits Kit
PLTW my DAQ Digital Mini System
Red LED - 5 mm, 2 V, 500 pack
Resistor/Capacitor Kit
RSR Helping Hand with Magnifier
RSR High Performance 25 Watt 3-Wire Iron
RSR Soldering Iron Stand
Solderless Breadboard with 300 Tie Points
USB A to USB B micro cable, 1.64ft
VEX DE Kit
Yellow LED - 5 mm, 2.1 V, 100pack
Back Saw, 14 inch, 12-14 teeth per inch
Miter Box, clamping
Socket Set, 3/8 in. Drive SAE/Metric 19-Piece
Vernier LabQuest Mini
Vernier Turbidity Bottles
Vernier Turbidity Sensor