

Fixed Classroom Purchases

Unit / Lesson	Item	Per Classroom of 25	
ALL	Computer	25	<i>Multi-Core In SSE recommends</i>
	Projector	1	
	Safety Glasses	25	
	Tool Storage System	1	
	Work Tables	1 for each group	
	Vice	2 for each group	
	Cordless Drill/Bits	5	
	Rubber Mallet	2	
	Hammer	5	
	Diagonal Pliers	12	
	Long Nose Pliers	12	
	Hand Saw	5	
	Hacksaw	5	
	Level	1	
	Metal File Set	1	
	Wood File Set	1	
	Wire Stripper	12	
	Soldering Iron	12	
	Dremel/Attachments	1	
	Utility Knife	12	
	Flathead Screwdrivers	12	
	Philips Screwdrivers	12	
	Miter Saw	1	
	Band Saw	1	
	Table Saw	1	
	Tape Measure	5	
	Meter Stick	5	
	Caliper	2	
	Sandpaper/Vari. Grades	1	
	Ruler	25	
	Stopwatches	6	
	Scissors	25	
	Glue Gun	12	
	Protractors	12	
	Spring Scale	10	
	Digital Scale	1	
	Hooked Weight Set	12	
	Alligator Clips	24	
	Multimeter	12	
E&P PRELIM	Box Fan	5	http://www.pit http://www.pit BSS/DS

E&P CYC 2	33 In 1 Deluxe Electronic Kit	12	http://www.ele
E&P CYC 3	Ray Catcher Solar Panel	1	http://www.pit
TRANS	Autodesk Inventor 2014 or Later	25 Licenses	http://www.au
TRANS PRELIM	Gallon Buckets	5	BSS/DS
TRANS CYC 2	8ft to 10ft Wooden Ramp	1	BSS/DS
TRAN CYC 4	Aluminum Axles	4 (10 packs)	http://www.pits
	GT-FX Wheels	1 (pack of 100)	http://www.pits
	Single Gear Box	5	http://www.pits
CONSTRUCTION	Tripod		
	Transit level		
	Rod - hand held		
	Hand level		
	100' Measuring Tape		
	Plumb bob		
	Location markers: stakes or rebar		
	Autodesk Revit 2014 or Newer	25 Licenses	http://www.a
MANUF PRELIM	Kitchen Appliances, (Inexpensive Stapler)	5	Dollar Tree
MANUF CYC 3	Flashlights	5	5 Different De
	Video Camera/Flip Camera	1	
	Video Editing Software	25	Windows Mov
MANUF CYCS 4-6	<i>ARDX The Starter Kit for Arduino by SEED Studio</i>	5	
	<i>Arduino UNO R3 Boards</i>	5	
MANUF CYC 4	Ring Stands	5	Chemistry Depa
MANUF CYC 6	24 VDC Solenoid Valve	5	McMaster-Carr
ROV CYC 1	Film Canister	5	Chemistry Depa
	Large Graduated Cyclinder	5	Chemistry Depa

Consumable Materials List

Key:

BSS = Building Supply Store (Lowe's, Home Depot, etc.)

CHS = Craft/Hobby Store (Michael's, Crafts, etc.)

GS = Grocery Store (Super Wal Mart, etc.)

OSS=Office Supply Store (Office Depot, Staples, etc.)

DS = Department Store (WalMart, Target, KMart, etc.)

Unit/Lesson	Item	Qty per Group	Classroom of 25
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All	Various Cleaning Supplies	NA	NA
	Duct Tape	NA	4
	Plastic Cup	NA	NA
	Scotch Tape	NA	4
	Wood Glue	NA	1
	Elmers School Glue	NA	1
	Glue Stick	NA	1
	Index Cards	NA	5
	Pencils	NA	25
	Colored Pencils	NA	2
	Masking Tape	NA	5
	Cardboard	NA	NA
	Balsa wood	NA	NA
	Twine	NA	NA
	Solder	NA	NA
	AA Volt Battery Packs	2	10
	AA Volt Batteries	NA	36
	9-Volt Batteries	NA	12
	Foam Board	NA	NA
	Engineering Journal	NA	25
F 5 DAYS	Paper clips	NA	2
	Rubberbands	NA	1
	12" Masking Tape	1	5
	Computer Paper	2	1
E&P PRELIM	KidWind Basic Turbine		
	Building Parts	1	7
	1" PVC 90° Fittings	5	35
	1" PVC T Fittings	3	21
	1" PVC T Fittings	5ft	35ft
	1" PVC Pipe	1	7
	22 Gauge Hook Up Wire	NA	100ft
	KidWind Balsa 100 Pack	1	1
E&P CYC 3	Ray Catcher Consumable 10 Pack	1	1
	KidWind Advanced Wind Experiment Kit Nacelle	1	5
TRAN CYC 2	Pringles Potato Chips	5	2 Cans
TRAN CYC 4	45 feet of 1/2" PVC pipe	1	
	1/2" PVC T-connectors	9	
MANUF CYC 1	Oscar Mayer Lunchable Box	1	5
	Unopened bag of small paper clips (50-100 ct.)	1	5
MANUF CYC 2	Disposable "non-latex" gloves	NA	NA
	Large Plastic Bowls	NA	5
	Raisins	NA	2

	Mini Marshmallows	NA	2
	M&Ms	NA	2
	Sunflower Seeds	NA	2
	Fruity Loops Cereal	NA	2
	Sandwich Baggies	NA	5
MANUF CYC 4	Small Machine Screws	NA	NA
	Small Tension Springs	NA	NA
	Flexible Tubing	NA	NA
	T- Connectors	1	5
	Small Rods: Metal, wood, or other materials	1	NA
MANUF PRIM	Candy- 3 Different Types	NA	NA
ROV PRELIM	Bendy Straw	1	5
	16 oz. Empty Plastic Water Bottle	1	5
	5 Gallon Bucket of Water	1	5
ROV CYC 1	Alka-Seltzer Tablet	1	5
ROV CYC 2	Disposable Pipette	1	5
	Brass Nut	1	5
ROV CYC 3-PRIM	SeaPerch Kit	1	5

Information

Intel® Xeon®, or i-Series processor or AMD® equivalent with
E2 technology. Highest affordable CPU speed rating
d (Photo realistic renderings can take up to 16 cores) 8GB of

sco.com/Aluminum_Spring_Scales

sco.com/Hooked_Weight_Set

ectronickitsbychaneyelectronics.com/prodinfo.asp?number=C6709
sco.com/Ray_Catcher_Sprint_Deluxe_Solar_Panel

todesk.com/products/inventor/overview

co.com/Aluminum_Axles
co.com/GT-FX_Wheels
co.com/Single_Gearbox

utodesk.com/products/revit-family/overview

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Vendor

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<http://www.vernier.com/products/kidwind/wind-energy/parts>

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<http://www.vernier.com/products/kidwind/wind-energy/parts>

http://www.pitsco.com/Ray_Catcher_Consumable_Packs?

<http://www.vernier.com/products/kidwind/wind-energy/parts>

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Box of 50

Chemistry Department

Kelvin

BSS

GS/DS

GS/DS

Recycled

BSS

Package

Chemistry Department

BSS

http://www.seaperch.org/order_kit