

The non-consumable supply list below refers to supplies that are reusable. The prices are based on US retail prices as of 2004. The quantity is based on a class of 20 students.

Store Key: OD= Office Depot (office supplies); HD= Home Depot (hardware supplies); P=Pharmacy; M=Michaels (art supplies); G= Grocery; GW=Goodwill Industries (resale) RS = Radio Shack (electronic supplies); CB= Carolina Biological Supply (science supplies); TRU=Toys R Us (toys)

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Straight pins	1A	Item# 172346. T pins may also be used	\$ 1.65	300	1	OD	x				
Metal paper clips	1A, 3A, 5B	Item# 808873	\$ 0.33	100	1	OD					
Plastic paper clips	1A	Item# 617738	\$ 5.48	315	1	OD	x				
Slide clips	1A	Item# 719065	\$ 3.55	60	1	OD	x				
binder clips	1A	Item# 429415	\$ 0.58	12	2	OD	x				
Other unique paper clips	1A	For example, butterfly clamps, Glide clips or suggestions above	Varies			OD	x				
wire cutters and stripper	1A, 4A, 4B, 4C, 4D	May be purchased as one tool or separately Internet/Catalog# 130141 Store SKU# 974093	\$ 7.96	1	10	HD					
Needle-nose pliers	1A, 5C, 12B, 13A, 14B, 15A	Internet/Catalog # 142428	\$ 13.97	1	10	HD					
Safety goggles	1A, 3A, 4A, 4B, 4C, 4D, 5C	Internet/Catalog # 129374	\$ 2.97	1	20	HD					
screw toothpaste cap	1C		\$ 3.00	1 6 oz		10 P					
flip toothpaste cap	1C		\$ 3.00	1 6 oz		10 P					

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Other toopaste cap examples	1C		Varies		10	P					
Water bottles	2C	Water bottles in different styles	from \$.99	1	10	G				x	
Backpacks	2D	Different types of daypacks			10	GW				x	
Clipboards	2C, 7B		\$ 2.25	1	20	OD	x				
Clay brick	3A	2" x 4" x 8" (5 cm x 10 cm x 20 cm)	\$ 0.35	1	1	HD		x			
Wood block	3A	2" x 4" x 8" (5 cm x 10 cm x 20 cm) - need to cut to size	\$ 2.40	2' x 4' x 8'	1	HD		x			
Styrofoam* block	3A	2" x 4" x 8" (5 cm x 10 cm x 20 cm)	\$ 1.79	2	1	M		x			
Balance scale	3A	Use if available. If doing 3A in stations, only one scale is needed			1 to 5		x				
Ceramic tile	3A	4" x 4" (10 cm x 10 cm). If doing 3A at stations, purchase one item	\$ 0.85	1	5	HD					
Bucket	3A	10 quart (9 liters) - need one large. If doing 3A at stations, purchase one item	\$ 3.00	1	5	HD					
Bucket	3A	5 quart (4.7 liters) - need one small. If doing 3A at stations, purchase one item	\$ 2.00	1	5	HD					
Sand, rice, or beans (batteries can work too)	3A	5 lb bag (2.2 kg). If doing 3A at stations, purchase one item	\$ 3.98	1	5	HD/G					

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C-clamps	3A	2" (5 cm). If doing 3A at stations, purchase one item	\$ 2.00	1	10	HD					
"D" size batteries	3A, 4A, 4B, 4C, 4D		\$ 7.99	8	20	OD					
Wire kits	3A, 4A, 4B, 4C, 4D	Jumper wire kit with insulated wire of different lengths. Catalog # 276-173	\$ 5.99	1	10	RS					
Flashlights	3A, 4A	Catalog # 61-87€	\$ 1.99	1	10	RS					
Screw-base lamps	3A, 4B, 4C	2.47V Premium-grade Incandescent Bulb. Catalog # 272-1132	\$ 1.49	2	10	RS					
Screw-base lamp holders	3A, 4B, 4C	E-10 Base screw terminals. Catalog # 272-357	\$ 1.59	1	20	RS					
Aluminum beverage container	3C	12 oz (355 mL) or 16 oz (473 mL) may be substituted	\$ 0.75	1	1	G					
Plastic beverage container	3C	12 oz (355 mL) or 16 oz (473 mL) may be substituted. V8* comes in 12 oz containers	\$ 1.35	1	1	G					
Glass beverage container	3C	12 oz (355 mL) or 16 oz (473 mL) may be substituted. Powerade* fruit punch comes in 12 oz containers	\$ 0.89	1	1	G					
Latex gloves	4A, 4B, 4C, 4D		\$ 7.47	100	1	HD					

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Breadboards	4B, 4C, 4D	Modular IC Breadboard Socket. Catalog # 276-175	\$ 7.99	1	10	RS					
Battery holders	4B, 4C, 4D	Holds 1 "D" size battery. Catalog # 276-403	\$ 0.99	1	20	RS					
Small screwdrivers	4B, 4C, 6C	Internet/Catalog # 141701	\$ 1.96	1	10	HD					
Switches	4B	DPDT Knife switches. Catalog # 275-1537	\$ 2.99	1	10	RS					
Buzzers	4B	Mini 12VDC Electric Buzzer. Catalog # 273-055	\$ 2.99	1	10	RS	x				
LED number display	4D	7-Segment LED Digital Display. Catalog # 276-075	\$ 1.79	1	10	RS					
LEDs	4D	Assorted LEDs. Catalog # 276-1622	\$ 2.49	20	1	RS					
Examples of stored energy toys	5A	For example: rubber band airplane, windup toys, paddleball, yo-yo, Slinky*, etc.)			Several		x		x		
Examples of simple machines	5B	Bring in examples, of wedge, wheel and axle, screw, pulley, lever, and inclined plane. See suggestions in 5B			Several		x		x		
Gears set	5B, 5C	Gears with 40, 30, and 20 teeth with 3/16" bore. Catalog # 76-8810	\$ 19.95	1 set	1	CB	x				

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Wheels set	5C	Set of 60 4 cm diameter wheels with 3/16" bore. Catalog # 76-8811	\$ 14.95	1 set	1	CB	x				
Bamboo skewers	5B, 5C, 12B, 13A	Small wooden dowells may also be used. Use as consummable in 12B, 13A	\$ 1.99	100	1	G	x				
Tools with moving parts	5C	For examples: eggbeater, hand drill, winged corkscrew, flour sifter			Several			x		x	
Computers with internet access	9A, 9B, 9C, 14C				1 per pair or per student						
Parts catalogs	9C				3		x				
highlighters	10A		\$ 5.50	12	2	OD					
Bicycles and tricycles	10B	Different kinds, shapes, and sizes			8 to 10					x	
Bicycle repair stands	10B	Used to raise and support bikes off the floor for study			8 to 10		x			x (check with local bike store to borrow)	
Bicycle parts	10B	A few parts in each system: drive system, steering, brakes, structural. See 10B for details			1 or 2 examples of each system					x (check with local bike store to borrow)	
Old rags or towels	10B	Used to wipe grease and dirt off hands and bikes			A few					x	

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Erector set	10B, 12B	toy construction set. SKN # 485163t	\$ 26.99	1	1	TRU	x				
Saw	12B, 13A, 14B, 15A	Internet/Catalog # 166017; Store SKU # 972442	\$ 6.86	1	1	HD		x		x	
Hammer	12B, 13A, 14B, 15A	Internet/Catalog # 165067; Store SKU # 345339	\$ 6.99	1	1	HD		x		x	
Screwdriver	12B, 13A, 14B, 15A		From 3.00	1	1	HD		x		x	
Hot glue gun	12B, 13A, 14B, 15A		\$ 8.49	1	1	M					
Snips	12B, 13A, 14B, 15A	Internet/Catalog # 165988; Store SKU# 184616	\$ 9.96	1	1	HD		x		x	
Samples of collapsible items	12C	For example: umbrella, folding chair, window blinds, sleeping bag. See 12C for other examples			Several			x		x	
Spreadsheet software	14C										
Video camera	18B									x	
Tripod	18B									x	
Scissors	Throughout		\$ 2.29	1	10						
Flip chart/Easel pac	Throughout		\$ 16.25	1	1	OD	x				
Markers	Throughout		From 2.99	10	2	OD					

The consumable supply list below refers to supplies that are not reusable after use. The prices are based on US retail prices as of 2004. The quantity is based on a class of 20 students. Most of the art supplies used for the simple machines challenge (5B), modeling (12B), and prototyping (13A) are examples of the type of supplies that may be purchased or brought in by students and staff. These may be substituted

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<i>Item</i>	<i>Activity</i>	<i>description</i>	<i>Unit price</i>	<i>Qty per unit</i>	<i>Qty</i>	<i>Store</i>	<i>optional</i>	<i>Suggested (may substituted)</i>	<i>already have</i>	<i>bring from home or donated</i>	<i>purchased</i>
16 gauge wire	1A, 5B, 5C, 12B, 13A	Item # 50143	\$ 5.98	200 ft	1	HD					
18 gauge wire	1A, 5B, 12B, 13A	Item # 50131. Floral stem wire may also be used	\$ 3.45	110 ft	1	HD					
20 gauge wire	1A, 5B, 12B, 13A	Item # 50134	\$ 3.97	175 ft	1	HD					
Beads, buttons, colored thin wire	1A	Embellishment for paper clips	Varies		Several	M					
Chocolate bar with caramel filling	3A	One frozen; one room temperature	\$ 0.55	1	2	G					
Wooden craft sticks	3A, 5B		\$ 2.69	50	1	M					
Multipurpose cable ties	3A	Internet/Catalog # 304120	\$ 2.95	100	1	HD					
Heavy duty aluminum foil	3A, 4C, 12B, 13A		\$ 2.99	50 sq ft	1	G					
Heavy duty sealable plastic bags	3A, 5B		\$ 2.85	15	1	G					
White photocopy paper	3A		\$ 3.50	500 sheets	1	OD					

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Candle, matches	3A	Candle in glass or metal holder, such as a votive candle	\$ 0.75	1	10	G					
Plastic/paper cups	3A, 5B		\$ 2.89	40	1	G		x			
Lightbulb	4A	Household 60-watt clear	\$ 0.96	4	1	HD					
Film canisters with lids	5A	Holes should be drilled in both ends	\$ 3.59	1	20	G				x	
Rubber bands	5A, 5B, 5C, 12B, 13A	Dimensions: 2.5" x 1/8" x 1/36" (6.5 cm x 3 mm x 0.7 mm) Use either #30 or #31 (#31 is slightly heavier. 909671 - #32	\$ 3.50	1 lb	1	OD					
Washers	5A, 5B, 12B, 13A	Either 1/2" or 3/4" (1.25 cm or 2 cm) outside diameter	\$ 0.13	1	20	HD					
Drinking straws	5A, 5B, 5C, 12B, 13A	Need to be thick straws	\$ 0.79	40	1	G					
Bradsbrass plated fasteners	5B		\$ 1.79	100	1	OD		x			
Clothespins	5B		\$ 2.99	30	1	M		x			
Magnets	5B		From 3.29	20 ft.	1	M		x			
Plastic spoons	5B		\$ 0.99	36	1	G		x			
Pulleys	5B				Some	HD		x			
Rope	5B, 12B, 13A	Or string or twine	\$ 2.29	25 yds	1	M		x			
Spools	5B		From .79	1	Some	M		x			
Springs	5B		Varies		Some	HD		x			
Meter Sticks	5B		\$ 3.25	1	10	OD					

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Foam	5B, 12B, 13A, 14B, 15A	Styrofoam in blocks and shapes	0.49 to 3.49	1	Some	M		x			
Modeling clay	5B, 12B, 13A		\$ 3.29	1 lb	1	M		x			
Pipe Cleaners	5B, 12B, 13A		\$ 0.99	25	1	M		x			
Tape	5B, 12B, 13A, 14B, 15A	Duct, masking, packaging, and electrical	Varies		Some	OD					
Glues	5B, 12B, 13A, 14B, 15A, 17B	Epoxy, superglue, glue sticks, rubber cement, hot glue	Varies		Some	M					
Milk cartons	5C	8 oz or 16 oz (236 mL or 472 mL)	\$ 0.99	1	20	G					
Electrical tape	5C	Internet/Catalog: 300020; Store SKU# 565679	\$ 3.86	1	1	HD	x				
Clock radios	6A, 6B, 6C	These are considered consummable because students take them apart	Varies		1 5 to 10	GW				x	
Windup mechanical alarm clock	6C	This is considered consummable because it will probably be taken apart	Varies	1	1	GW	x			x	
Foam core board	12B, 13A		\$ 2.79	1	Some	M		x			
Balsa wood	12B, 13A	Sheets and pre-cut strips	From .99	1	Some	M		x			

Item	Activity	description	Unit price	Qty per unit	Qty	Store	optional	Suggested (may substituted)	already have	bring from home or donated	purchased
Carboard	12B, 13A	Tubes, boxes of all sizes, flat pieces	varies		Some	M		x			
Paper	12B, 13A	Poster board or card stock	Varies		Some	M		x			
Lego set	12B, 13A		\$ 19.99	tub	1	TRU	x	x		x	
Wheels	12B, 13A		\$ 39.99	tub	1	TRU		x		x	
Wine corks	12B, 13A				Some			x		x	
Aluminum beverage containers	12B, 13A		\$ 0.55	1	Some	G		x			
Bubble packing wrap	12B, 13A, 14B, 15A		\$ 3.99	25 sq ft	1	M		x			
Packaging peanuts	12B, 13A		\$ 3.75	1 bag	1	M		x			
twist ties	12B, 13A		Varies		Some	G		x			
PVC pipe and connectors	12B, 13A	Model#: QBE22	\$ 3.25	1	Some	HD		x			
Lumber	12B, 13A, 14B, 15A	For example: plywood 2x4s of different lengths	Varies		Some	HD		x			
Rubber tubing	12B, 13A, 14B, 15A		\$ 1.99	10 ft	1	HD		x			
Hinges	12B, 13A		Varies		Some	HD		x			
Nuts and bolts	12B, 13A		Varies		Some	HD		x			
Screws	12B, 13A	Assorted	Varies		Some	HD		x			
Nails	12B, 13A	Assorted sizes	Varies		Some	HD		x			
Push pins	12B, 13A		\$ 0.99	40	1	OD		x			
Plexiglass	14B, 15A		\$ 1.85	11 x 14 in	1	HD		x			
Metal sheets	14B, 15A	26 gauge	\$ 4.37	18x12	2	HD		x			
Canvas fabric	14B, 15A		Varies		Some	M		x			
Cotton balls	14B, 15A		\$ 2.25	100	1	G		x			
Sandpaper	14B, 15A		From 1.65		Some	HD		x			
Sponges	14B, 15A	Different types, including steel wool pads	From 1.19	1	Some	G		x			
3-panel display boards	17B	Cardboard or foam	From 7.18	1	20	OD					

<i>Item</i>	<i>Activity</i>	<i>description</i>	<i>Unit price</i>	<i>Qty per unit</i>	<i>Qty</i>	<i>Store</i>	<i>optional</i>	<i>Suggested (may substituted)</i>	<i>already have</i>	<i>bring from home or donated</i>	<i>purchased</i>
Colored paper	17B		\$ 3.39	200	1	OD					
Scapbooking Supplies	17B		Varies		Some	M					
video tapes	18B		Varies			G	x				
Composition notebooks	All	A lab notebook with grid lines. Item # 126741. Cheaper without gridlines (\$1.79)	\$ 7.65	1	20	OD					

Item	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Other
Computers with Internet access									A,B,C					C					
Highlighters									A										
Bicycles and tricycles									B										
Bicycle repair stands									B										
Bicycle parts									B										
Old rags or towels									B										
Erector set									B		B								
Saw											B	A	B	A					
Hammer											B	A	B	A					
Screwdriver											B	A	B	A					
Hot glue gun											B	A	B	A					
Snips											B	A	B	A					
Samples of collapsible items												C							
Spreadsheet software														C					
Foam core board											B	A							
Balsa wood											B	A							
Cardboard											B	A							
Paper											B	A							
Lego set											B	A							
Wheels											B	A							
Wine corks											B	A							
Aluminum beverage containers											B	A							
Bubble packing wrap											B	A	B	A					
Packaging peanuts											B	A							
twist ties											B	A							
PVC pipe and connectors											B	A							
Lumber											B	A	B	A					
Rubber tubing											B	A	B	A					

