

Foundations of Technology 4th Edition

Fixed Classroom Purchases

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Key:

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

CHS = Craft/Hobby Store (Michael's, AC Moore, Jo Ann's Fabric and Crafts, etc.)

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

GS = Grocery Store (Super Wal Mart, Krugers, Giant, Stop & Shop, Safeway, etc.)

TES = Technology Education Store (Kelvin, Paxton/Patterson, Pitsco, IASCO, etc.)

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

*indicates a material that is also used in another lesson

Unit / Lesson	Item	Qty Per Classroom
All	Computer	One per student
All	Autodesk Suite	One per computer
All	Corel Draw Suite	One per computer
All	Adobe Creative Suite	One per computer
All	Various Tools / Machines	It is recommended that each teacher work with his/her school system to outfit the classroom appropriately
All	Safety Glasses	One per student
All	Tool Storage System	1
All	Flammable Storage Cabinet	1
All	Student Project Storage System	Enough for each student to store their projects
All	Workbench	Enough for each student to work on projects
All	Workbench Vice	Two or more per workbench
All	Compound Miter Saw w/ Stand	1
All	Table Saw	1
All	Drill Press	1
All	Band Saw	1
All	3D Printer	1
All	Laser Engraver	1
All	Air Compressor	1
All	Shop Vac	1
All	Cordless Drill	3

All	Cordless Circular Saw	1
All	Cordless Sander	1
All	Dremel with various attachments	1
All	Hammer	5
All	Rubber Mallet	2
All	Tape Measure	5
All	Metal Ruler 36"	5
All	Wood Ruler 12"	20
All	Caliper (dial or digital)	2
All	Layout Square or Combination Square	4
All	Utility Knife	2
All	Long Nose Pliers	1
All	Combination Slip Joint Pliers	3
All	Diagonal Pliers	1
All	Level	1
All	Flathead Screwdriver Set	1
All	Phillips Screwdriver Set	1
All	Quick Clamp (small or 6")	10
All	Quick Clamp (large or 12")	10
All	Carpenter Handsaw or Backsaw	1
All	Coping Saw	5
All	Hacksaw	1
All	Holesaw (various sizes 1", 2", 4" as needed)	TBD
All	Exacto Knife Set	2
All	Wood File Set	1
All	Metal File Set	1
All	Hole File Set	1
All	Sandpaper (various grades)	TBD
All	Hand Drill	2
All	Standard Drill Index	1
All	Metric Drill Index	1
All	Easy Cutter	15
All	Scissors	20
All	Glue Gun	10
All	Compass	10
All	Protractors	10
All	Digital Scale	1
All	Multimeter with leads	15
2~1	Crane Tower (teacher built)	see below
2~1	¼" x 24" x 36" plywood (base of Crane tower)	1
2~1	4" x 4" x 24" (boom for Crane tower)	1

2~1	Crown bolt, ¼"-20 x 2", zinc plated (assemble to top of boom for Crane tower)	1
2~1	Washer, ¼" flat, zinc plated (assemble to bolt, Crane tower)	1
2~1	Wing nut, crown bolt, ¼"-20, zinc (assemble to bolt, Crane tower)	1
2~1	Dry wall screws or bolt (faster to attach base to boom, Crane tower)	TBD
2~1	Weight (test for Crane tower)	TBD
2~3	Marshmallow Launcher Platform (teacher build)	see below
2~3	¼" x 24" x 60" plywood (base of marshmallow launcher platform)	2
2~3	¼" x 24" x 24" plywood (back of marshmallow launcher platform)	2
2~3	¼" x 12" x 7" plywood (backboard of marshmallow launcher platform)	2
2~3	4" diameter 90 degree bend PVC elbow fitting	2
2~3	4" diameter x 6" length straight PVC	2
2~3	4" PVC Coupling	2
2~6	Robotic Stacker Field (teacher build)	see below
2~6	¼" x 30" x 48" plywood (base of robotic stacker field)	2
2~6	1" cube	2
2~6	1.5" cube	2
2~6	2" cube	2
2~6	3" cube	2
3~1	Box Fan	1
3~3	Modeling Clay (Black)	1 Package
3~3	Modeling Clay (Brown)	1 Package
3~3	Modeling Clay (Grey)	1 Package
4~1	Marbles (Rube Goldberg activity)	5 Packages
4~1	Dominos (Rube Goldberg activity)	5 Packages
4~2	Various Material Types (material classification activity)	TBD
4~3	Duplo / Lego Blocks	TBD
4~3	Various Toys, Electronics (reverse engineering project)	TBD
4~4	Wire Stripper/Cutter	1
4~4	Soldering Iron	1
4~4	Solderless Circuit Kits or Arduino Kits	12
4~4	Solderless Circuit Board	15

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