

Field Materials					
A					
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
A-1	Soft Tiles	1	36	2' x 2' x 5/8" Gray (Note Partners and teams can receive a discount if ordering directly by phone. See the website:) www.softtiles.com	\$ 209
A-2	FTC Field Perimeter	1	1	http://www.andymark.com/SearchResults.asp?Search=FTC+Field	\$ 689
A-3	Gaffers Tape	As Needed	As needed	www.findtape.com 2" Pro-Gaff Gaffers Tape - Electric Blue 2" Pro-Gaff Gaffers Tape - Red 1" Pro-Gaff Gaffers Tape - White	\$ 18 \$ 18 \$ 18
A-4	11" Zip Ties	As Needed	As needed	The Home Depot Store SKU # 295391 (per 10 pack) (Available in larger quantities.) Used to secure the Off-Field Goal, and the IR Beacon Supports to the field perimeter.	\$ 1.79
Home-Zone Assembly - 2 per Field					
B					
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
B-1	4' x 8' x 1/2" Plywood	1 sheet	1 sheet	1 sheet of 4' x 8' will make 2 Home-Zone assemblies.	\$ 15
B-2	2" x 4" x ~7.5" Wood	6	12	(US 2x4 is actually 1.5 x 3.5. Widths may vary but the 7.5" length is critical)	\$ 5
B-3	2'x4' x 1/4" Lauan sheet	1	1	One sheet cut for both ramps	\$ 6
B-4	6" x 6" Screen	1	2	The Home Depot Store SKU # 701050	\$ 7
B-5	#8 2.5" Wood Screws	12	24	For legs	
B-6	1-1/2" x 48" Piano Hinge	1	2	The Home Depot SKU 594641	\$ 10
B-7	#6 - 0.375 (3/8) Wood screws for Hinge	As needed	As needed	If the screws that are supplied with the piano hinge are too short, or too small, use the screws in Item 7 as an alternative choice.	
B-8	3/4" Sticky Back VELCRO	As needed	As needed	Super stick, self adhesive strips	\$ 10
B-9	BEHR Premium Plus Semi-Gloss Paint	As needed	As needed	Mickey's Pants (Red) and Midnight Blue (Blue)	\$ 40
Off-Field Goal Assembly - 2 per Field					
C					
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
C-1	2" x 13.5" PVC Pipe	1	2	Comes in 10' length, must be cut to size The Home Depot SKU 193852 (\$6.45 each)	\$ 6.45
C-2	4" x 2" PVC coupler	1	2	The Home Depot SKU 189073 (\$2.70 each) Lowes: Item 23311	\$ 13.38
C-2a	2" x 4" Adapter Coupling	1		Alternative to using C-2 & C-3: Use this single piece. See alternative instructions. Lowes: Item 23321 (\$5.33)	
C-3	3" x 2" PVC coupler	1	2	The Home Depot SKU 472506 (\$6.52 each) Lowes: Item 23320	\$ 7.70
C-4	9.5" String LED Light	1	2	Use one string of red and one string of blue as appropriate http://www.oznium.com/led-flex-strips (\$11.49 each)	\$ 23.00
C-5	Magnetic Reed Switches	2	4	Hamlin 59135-020 (\$6.44 each) http://search.digikey.com/scripts/DkSearch/dksus.dll?lang=en&sitem=US&Keywords=59135-020-ND&x=22&y=27	\$ 26.00
C-6	3/8" wood screws	4	8	Used to secure Magnetic Reed Switch to the wooden support.	
C-7	9V Battery Cap	1	2	Battery Cap	
C-8	9V Battery	1	2		
C-9	1" x .5" x 13 5/8" Wood Strip	1	2	Use a strip of 1/2" plywood	
C-10	PVC Cleaner	As needed	As needed	The Home Depot SKU 187194	\$ 7.21
C-11	PVC Cement	As needed	As needed	The Home Depot SKU 212369	\$ 9.60
C-12	2" Gaffers Tape	As needed	As needed	www.findtape.com Pro-Gaff Gaffers Tape - Electric Blue Pro-Gaff Gaffers Tape - Red	\$ 36.00
C-13	Electrical tape	As needed	As needed		
C-14	Wire nuts	3	6	http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=WM2963-ND (\$.15)	\$ 1.00
C-15	3/4" Sticky Back VELCRO	As needed	As needed		
C-16	2" PVC Drain	1	2	Lowes Model # 435613 (Item #: 253249) The Home Depot SKU 728174	\$ 3.00

D	IR-Beacon - 1 Pair per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
D-1	2"x 4" x 16" Lumber	1	2		
D-2	Master Beacon	1	1	www.HiTechnic.Com	\$ 27.00
D-3	Slave Beacon	1	1	www.HiTechnic.Com	\$ 27.00
D-4	3/4" Sticky Back VELCRO	As Needed	As Needed		
D-5	Black Paint	As Needed	As Needed	BEHR Premium Plus Semi-Gloss Paint, Mouse Ears (Black)	\$ 15.00
D-6	9V Battery	1			
D-7	Connector Housing - Male .100 3 POS	2		www.digikey.com Part Number: WM2872-ND	
D-8	Crimps	4		www.digikey.com Part Number: WM2555	
D-9	Crimp Tool	1		www.digikey.com Part Number: WM9999	
D-10	24 Gauge Stranded Speaker Wire	As Needed		You need at least 28 feet per field. Speaker wire is readily available at any electronics store (Radio Shack) in spools.	
E	Ball Tube - 4 per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
E-1	8"Diameter x 6" Length Sonotube	1	4	Available in 48" lengths. The Home Depot SKU # 285266 (\$5.73)	\$ 5.73
E-2	Duck 10'L x 12"W White Adhesive Shelf Liner	As needed	1 Roll	Lowes Item # 223760	\$ 2.00
E-3	Avery Shipping Label 5126	1	4	Avery Label 5126	
F	Sterilite® Mini Crates - 12 per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
F-1	Serilite® Mini Crate 9" x 7-7/8" x 6-1/8"	1	12	http://www.usphome.com/catalog/item.aspx?itemid=74450&catid=962	\$ 24.00
F-2	Gaffers Tape	As Needed	As Needed	Www.findtape.com 1" Pro-Gaff Gaffers Tape - Electric Blue 1" Pro-Gaff Gaffers Tape - Red	
G	Bowling Balls - 2 per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
G-1	6LB Bowling Ball	1	2	6 pounds w/ or w/o finger holes (Used or new) Suggest: Dick's Sporting Goods Ebonite ZOOM Dick's Sporting Goods Ebonite ZOOM	
G-2	1" Gaffers Tape	As needed	As needed	Www.findtape.com Pro-Gaff Gaffers Tape - Electric Blue ,	
H	Purple Racquet Balls - 100 per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
H-1	Purple Racquette Balls	1	100	Official Bowled Over! Racquet Ball kit is available from: http://www.andymark.com/product-p/am-0945.htm	
H-2	Grade N50/N52 Magnets DC1-N52	1	12	http://www.kjmagnetics.com/proddetail.asp?prod=DC1-N52&cat To be hidden inside 12 random racquetteballs	\$ 23.00
H-3	Loctite® Quicktite Superglue Gel	As Needed	As needed	http://www.buynow.com/viewProduct.asp?SKU=LOC0130379	
I	Score Keeper's Stack Scoring Stick - 2 per Field				
Item	Description	QTY per Assembly	QTY per Field	Note / Suggested Source	Est. Cost
I-1	5' x 1" PVC Pole	1	2	You may use 1" x 5' PVC pipe, or wooden or fiberglass pole. The material is not critical, so long as it is long enough and appropriately marked.	
I-2	2" Gaffers Tape	As Needed	As needed	Www.findtape.com 2" Pro-Gaff Gaffers Tape - Electric Blue 2" Pro-Gaff Gaffers Tape - Red	