## \*\*\* SHOPPING GUIDE VERSION OF BOM \*\*\*

The Parts Shopping List can be used to order/purchase the items that will be needed to build the 2013 FTC game field. This categorized list tells you where to find an item, and it provides and an identifier (SKU #, item # or some other unique identifier) to help find and purchase the item. The peach colored rows delineate the various product categories (such as "Field Elements," "Hardware," "Wood," etc.). The gray rows are place holders and should not contain any product information. The last column of the list can be used to mark when an item has been purchase/acquired. Note that the number that listed in the "Qty" column of the shopping list corresponds to the purchase quantity for that item.

		Parts Shopping List			
Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?
Field Elements					
					<b>✓</b>
www.andymark.com	Item # am-0481	1	FTC Perimeter Field Kit	AndyMark is planning on releasing a new version of their FTC Field Perimeter. At the time of this document's printing, AndyMark has not yet issued a new item number for this new Field Perimenter.	
www.softtiles.com	http://www.softtiles.com/index.php?option=com	36	SoftTiles Interlocking Foam Mats 2 ft x 2 ft by 5/8	FTC Teams receive a 10% discount from	
	content&view=article&id=94&Itemid=47		Inch Thick (Gray)	softtiles.com	
www.hitechnic.com	Item #FTCBCN	2	FTC Infrared Beacon.	Used during autonomous period.	
www.andymark.com	ftc-2013-30 (quarter set) or ftc-2013-120 (full set)	As needed	Official game element (block).  Use AndyMark part # ftc-2013-30 for a quarter set of blocks (25 blocks plus 5 spares).  UseAndyMark part # ftc-2013-120 for a full set of blocks (100 blocks plus 20 spares).  A full field requires 100 blocks plus spares.		
Hardware					
Home Depot	Home Depot SKU #206248	2	1/2 in. x 10 in. Steel Nipple		
or Lowes	or Lowes Item #24035				
Home Depot	Home Depot: SKU # 567303	1	1/2 in. x 60 in. Steel Pipe		
or Lowes	Lowes: Item # 22505				

National	s/Comments Got It?
Home Depot   Home Depot SKU #: 499201 (8 Count)   1   #10-32 x 3/4 in. Machine Screw (8-Pieces for Home Depot SKU #: 499201 (8 Count)   1   #10-32 x 3/4 in. Machine Screw (8-Pieces for Home Depot SKU #: 499201 (8 Count)   1   #10-32 x 3/4 in. Machine Screw (8-Pieces for Home Depot Grainger Item#: 1MU46   1   1   1   1   1   1   1   1   1	
The best	
Home Depot	
or Lowes   Lowes Item #: 57852 (8 Count)   Home Depot and Lowes, 100-pieces for Grainger)	
or Lowes   Lowes Item #: 57852 (8 Count)   Home Depot and Lowes, 100-pieces for Grainger)	
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or Lowes   Lowes Item #: 57852 (8 Count)   Home Depot and Lowes, 100-pieces for Grainger)	
or Grainger  Home Depot Home Depot SKU #: 496926 (4 Count) or Lowes Grainger Grainge	
Home Depot SKU #: 496926 (4 Count) or Lowes Crainger Grainger Grainger Grainger Grainger Grainger Grainger Grainger Grainger Home Depot SKU #: 496926 (4 Count)  or 1 (Lowes / Grainger)  for 1 (Lowes / Grainger)  for 1 (Lowes / Grainger)  for 2 (Lowes / Grainger)  for 3 (Lowes / Grainger)  for 4 (Lowes / Grainger)  for 3 (Lowes / Grainger)  for 4 (Lowes / Grainger)  for 5 (Lowes / Grainger)  for 4 (Lowes / Grainger)  for 5 (Lowes / Grainger)  for 4 (Lowes / Grainger)  for 5 (Lowes / Grainger)  for 6 (Home Depot, 50-pack from Lowes,  for 6 (Lowes / Grainger)  for 7 (Lowes / Grainger)  for 7 (Lowes / Grainger)  for 7 (Lowes / Grainger)  for 8 (Lowes / Grainger)  for 8 (Lowes / Grainger)  for 8 (Lowes / Grainger)  for 9 (Lowes / Grainger)  for 9 (Lowes / Grainger)  for 1 (Lowes / Grainger)	
or Lowes Lowes Item #: 70682 (50 Count) (4-pack from Home Depot, 50-pack from Lowes, Grainger Grainger Item #: 2EE33 (100 count) or 1 (Lowes / Grainger) 100-pack from Grainger)  Grainger Grainger Item #: 4ZU77 (50 Count) 1 10-32 threaded inserts (50-pack).  Grainger Grainger Item #: 2X571 (3 Count) 2 DAYTON Collar, Shaft, 1 In, Pk3  Home Depot Home Depot SKU #: 112457 4 1/4 in. x 4 in. Eye Bolt with Nut Comes with one 1/4-	
or GraingerGrainger Item #: 2EE33 (100 count)or 1 (Lowes / Grainger)100-pack from Grainger)GraingerGrainger Item #: 4ZU77 (50 Count)110-32 threaded inserts (50-pack).GraingerGrainger Item #: 2X571 (3 Count)2DAYTON Collar, Shaft, 1 In, Pk3Home DepotHome Depot SKU #: 11245741/4 in. x 4 in. Eye Bolt with NutComes with one 1/4-	
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Home Depot SKU #: 112457 4 1/4 in. x 4 in. Eye Bolt with Nut Comes with one 1/4-	
or Lowes Lowes Item #: 211578	20 nut.
Home Depot SKU # 307319 (4 Count) 1 (Home Depot) 1/4 in20 Coarse Hex Nuts Build requires 6, but	the product with
or Lowes Lowes Item #: 67340 or 2 (Lowes) Home Depot SKU #13	12457 or Lowes Item
# 211578 each come	s with a single nut, so
we only need 2 addit	ional nuts.
Home Depot SKU #: 363696 (25 Count) 2 (Home Depot) #8 x 1-1/2 in. Phillips Wood Screw	
or Lowes Lowes Item #: 57234 (8 Count) 4 (Lowes)	
Home Depot Store SKU # 365474 (72 Count) 1 #10 x 3 in. Wood Screw	
or Lowes Lowes Item #: 123606 (25 Count)	
Lowes Lowes Item # 8797 2 USP 6-9/16-in G90 Galvanized Finish Corner	
Brace	
Home Depot Home Depot SKU # 758488 1 13/64 in. Black Oxide Drill Bit	
or Lowes Lowes Item #: 81105	
Home Depot Home Depot SKU # 762415 1 1/4 in. Black Oxide Drill Bit	
or Lowes Lowes Item #: 90308	
Home Depot Home Depot SKU # 765154 1 9/32 in. Black Oxide Drill Bit	
or Lowes Lowes Item #: 335403	
Home Depot	
or Lowes Lowes Item #: 107933	

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Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?
Home Depot	Home Depot SKU #: 174947	1	1 in. Spade Drill Bit		
or Lowes	Lowes Item #: 170983				
Home Depot	Home Depot SKU #: 209196 (6 Count)	As Needed	1/4 in. x 1-1/4 in. Steel Fender Washers	Used only if needed to balance the arms.	
or Lowes	Lowes Item #: 2769 (30 Count)				
Home Depot	Home Depot SKU #: 743638	1	3/32" Black Oxide Drill Bit		
or Lowes	Lowes Item #: 72799				
Home Depot	Home Depot SKU #: 614028 (as part of a set)	1	Metric 5mm Hex Key (as part of set).	Used to install threaded inserts.	
or Lowes	Lowes Item #: 25490 (as part of a set)				
Home Depot	Home Depot SKU #: 282265 (12-Pack)	2 Packages	#6 x 5/8" Wood Screw		
or Lowes	Lowes Item #: 2620 (100-count)	1 Package			
Home Depot	Home Depot SKU #: 254266 (100 Pieces)	1 Package	#6 Flat Washer		
or Lowes	Lowes Item #: 1990 (100 Pieces)	1 Package			
Wood					
Home Depot	Home Depot SKU #: 161667	3	2 x 4 x 12 Lumber	When cutting the lumber, we need to	
or Lowes	Lowes Item #: 432481		(note actual cross section is 1.5" x 3.5" or 3.81 cm	=	
				due to the width of the cutting blade (i.e.,	
	Alternatively, you can purchase	Alternatively,	·	the kerf).	
	Home Depot SKU #:161640	4	(note actual cross section is 1.5" x 3.5" or 3.81 cm	,	
	'		,	For 12' lumber - Board #1 cut to 48" (1x),	
			·	5.5" (4x), 12"(4x) and 24" (1x) pieces.	
				Board #2 cut to 48" (2x) and 24" (1x)	
				pieces. Board #3 cut to 24" (2x) pieces.	
				pieces. Board #3 cut to 24 (2x) pieces.	
				For 8' lumber - Board #1 cut to 48" (1x),	
				5.5" (4x) and 24" (1x) pieces. Board #2	
				cut to 48" (1x) and 12" (3x) pieces.	
				Board #3 cut to 24" (3x) pieces. Board #4	
				cut to 48" (1x) and 12" (1x) pieces.	
Home Depot	Home Depot SKU #: 161713	2	2 x 6 x 8 Lumber	Board #1 should be cut to 48" (1x) and	
or Lowes	Lowes Item #: 432484		(note actual cross section is 1.5" x 5.5" or 3.81 cm		
or Lowes	LOWES ITEM #. 432404		x 13.97 cm)	48" (1x) and 38" (1x) pieces.	
			X 15.57 CIII)	48 (1x) and 38 (1x) pieces.	
Home Depot	Home Depot SKU #: 914797	1	1 x 6 x 12 Lumber	Cut board into 48" (2x) pieces.	
or Lowes	Lowes Item #: 7502		(note actual cross section is 0.75" x 5.5" or 1.91		
			cm x 13.97 cm)		

	Parts Shopping List					
Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?	
Home Depot	Home Depot SKU #: 103078	3	1/2 in. x 2 ft. x 4 ft. Sandeply Hardwood Plywood	Use panels #1 and #2 as is, rip panel #3		
			Handy Panel	into two smaller pieces (10" x 34" in size).		
Hobby Lobby	http://shop.hobbylobby.com/products/wood-	2	Wood craft door hanger.			
or other craft store	door-hanger/		Approximate size is 3 5/8" x 9 1/2" x 1/4" (9.21			
			cm x 24.13 cm x 0.64 cm).			
PVC Fittings and Pipe						
Home Depot	Home Depot SKU # 294322	2	1 in. x 1 in. x 1/2 in. PVC Slip x Slip x Slip Reducing			
or Lowes	Lowes Item #: 23877	14	Tee 1/2 in. PVC Schedule 40 Pressure S x S Elbow			
Home Depot or Lowes	Home Depot SKU # 187968 Lowes Item #: 23867	4	1/2 in. PVC Schedule 40 Pressure 5 x 5 Elbow			
Home Depot	Home Depot SKU # 187909	12	1/2 in. PVC S x S x S Tee			
or Lowes	Lowes Item #: 23873	2	1/2 III. PVC 3 x 3 x 3 Tee			
Home Depot	Home Depot SKU # 232505	2	3/4 in. PVC Pressure S x S x S x S Cross			
or Lowes	Lowes Item #: 24088		3/4 111.1 VETTESSATE 3 X 3 X 3 X 3 CT033			
Home Depot	Home Depot SKU # 187917	2	3/4 in. PVC S x S x S Tee			
or Lowes	Lowes Item #: 23874		<b>1</b> ,			
Lowes or PVCFittingsDirect.com	Lowes Item #: 315496	2	3/4" x 3/4" x 3/4" 90° Side Outlet Elbow SxSxS			
	PVCFittingsDirect.com SKU 413-007		PVC Fitting			
Home Depot	Home Depot SKU # 188069	4	1/2 in. PVC Schedule 40 Pressure Slip x Slip			
or Lowes	Lowes Item #: 23849		Coupling			
Home Depot	Home Depot SKU # 188166	2	1/2 in. PVC Cap (Slip)			
or Lowes	Lowes Item #: 23937			<u> </u>		
Home Depot	Home Depot SKU # 193682	1	1/2 in. x 10 ft. PVC Sch. 40 Plain-End Pipe	Cut into 8" (2x), 1.5" (4x), 3" (2x), 4.25"		
or Lowes	Lowes Item #: 23966			(2x), and 11.75" (2x) pieces.		
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		Parts Shopping List			
Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?
Lowes	Lowes Item #: 23971	2	Charlotte Pipe 3/4-in x 10-ft 480 PSI Schedule 40		
			PVC Pressure Pipe		
Таре					
www.findtape.com	Pro Tapes Pro-Gaff Gaffers Tape	As Needed	1" x 55 yards (2.54 cm by 50.3m) White Gaffers		I
www.matape.com	The rapes the dair dallers tape	, is included	tape		
www.findtape.com	Pro Tapes Pro-Gaff Gaffers Tape	As Needed	2" x 55 yards (5.08 cm by 50.3m) Red Gaffers		
www.midtape.com	The rapes the dan daners rape	As Needed	tape		
www.findtape.com	Pro Tapes Pro-Gaff Gaffers Tape	As Needed	2" x 55 yards (5.08 cm by 50.3m) Electric Blue		
<u>www.midtape.com</u>	Pro Tapes Pro-Gail Gallers Tape	As Needed			
Miscellaneous			Gaffers tape		
	Home Depot: SKU # 212350	1	8 oz. PVC Cement		T
Home Depot		1	8 02. PVC Cement		
or Lowes	Lowes Item # 23467	4 11	Daha Daarai wa Dhaa Carai Chara Dainta Disaasa	Cationate d 4 cellen neutro Calde built	
Home Depot	Go to paint desk and ask them to look up Behr	1 gallon	Behr Premium Plus Semi-Gloss Paint: Disney	Estimated 1 gallon per two fields built	
	"Mouse Ears" black on their computer. Also refer		Color - Mouse Ears	(assuming parts are primed prior to	
	t color code DC4B-10-5, semi gloss (base 3300).			painting).	
Home Depot	Go to paint desk and ask them to look up Behr	1 quart	Behr Premium Plus Semi-Gloss Paint: Disney	Estimated 1 quart per two fields built	
	"Mickey's Pants" red on their computer. Also		Color - Mickey's Pants	(assuming parts are primed prior to	
	refer t color code DC2B-80-5, semi gloss (base			painting).	
	3300).				
Home Depot	Go to paint desk and ask them to look up Behr	1 quart	Behr Premium Plus Semi-Gloss Paint: Disney	Estimated 1 quart per two fields built	
	"Midnight Ball" blue on their computer. Also		Color - Midnight Ball Blue	(assuming parts are primed prior to	
	refer t color code DC3B-50-5 semi gloss (base			painting).	
	3300).				
Home Depot	Home Depot SKU #: 928183	1 quart	Behr Premium Plus Semi-Gloss Paint: Ultra Pure	Estimated 1 quart per two fields built	
			White	(assuming parts are primed prior to	
				painting).	
Home Depot	Home Depot SKU #: 574504	1 gallon	Behr Premium Plus Stain-Blocking Interior Primer	Estimated 1 gallon per two fields built.	
			& Sealer		

		Parts Shopping List			
Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?
Online vendors	http://www.amazon.com/Sterilite-16958612-	8	Sterilite 1695 Mini Crate (dimensions 9" L x 7		
	Mini-Crate-pack/dp/B002BL4HTQ		7/8" W x 6 1/8" H or 22.9cm L x 20.0cm W x		
			15.6cm H).		
Staples (or similar office product store).	Staples Item#: 490887	1 (package of 250)	White 8 1/2" x 11" (21.59 cm x 27.94 cm) Card		
Compress (or community of the product of the community of		_ (paramage or)	Stock		
Staples (or similar office product store).	Staples Item#: 247403	1 (package of 10)	White Poster Boards, 10-Pack, 22" x 28" (55.88		
Compress (or ominial orness products store).		_ (pastage or _o)	cm x 71.12cm)		
Home Depot	Home Depot: SKU # 239540	As needed	Velcro STICKY BACK 15 ft. x 3/4 in. Tape (4.57 m x		
or Lowes	Lowes Item # 20027		1.91 cm)		
Home Depot	Home Depot: SKU #295648	As needed	8 in. Cable Ties (100-Pack)		
or Lowes	Lowes: Item #76023	1	0 mm caste mas (200 mast)		
Home Depot	Home Depot: SKU #250355	As needed	Alkaline 9-Volt Batteries		
or Lowes	Lowes: Item #99500	1	7		
Home Depot	Home Depot: SKU #193362	1	25 ft. Tape Measure		
or Lowes	Lowes: Item #94846				
Home Depot	Home Depot: SKU # 172618	1	Arrow Fastener T50 1/4 in. Steel Staples (1,250-		
or Lowes	Lowes: Item # 91429		Pack)		
Home Depot	Home Depot: SKU # 688903	1	Sharpie Magnum Permanent Marker in Black		
or Lowes	Lowes: Item #77350				
Home Depot	Home Depot: SKU # 836151	1	The Hillman Group 2 in. Self-Adhesive Vinyl		
		_	Number Pack		
www.avery.com	http://www.avery.com/avery/en_us/Products/Cr	1 Package	8.5" x 11" (21.59 cm x 27.94 cm) Sticky Back		
or Staples	afts-&-Scrapbooking/Sticker-Project-Paper/White-	_	Paper.		
- Stapics	Sticker-Project-Paper 03383.htm	1			
	Sticker i roject i uper_03303.iitili				
	http://www.staples.com/Staples-Sticker-				
	Paper/product 490429				
	<u>r apci/pi/uuct_430423</u>				

		Parts Shopping List			
Available Vendor(s)	Identifier (Item #/SKU/etc.)	Qty	Description	Instructions/Comments	Got It?
Online Vendors	http://www.gmdice.com/dice/d4	1 die	Four sided die (optional).		
	http://www.gamescience.com/4-sideddice(d4)				
Home Depot	Home Depot: SKU #292273	1 roll (230' or 70m long)	36-lb Twine Mason Line, white.		
or Walmart	Walmart No.: 001122774				
	http://www.walmart.com/ip/36-lb-Twine-Mason-				
	Line-White/16879710				
Home Depot	Home Depot: SKU # 825234	2 rolls	VELRCO 4'L x 2"W (1.22m x 5.08cm) Sticky Back		
or Lowes	Lowes: Item #184582		Inudstrial Strength Roll		
<b>Optional PVC Cleaning Supplies</b>					
Home Depot	Home Depot: SKU # 827588	1	3M Pro Grade 2-7/8 in. x 4-1/2 in. Medium Dual-	Used to clean PVC pipes and sand	
or Lowes	Lowes Item # 68632		Angle Sanding Sponge	wooden pieces for priming and painting.	
Home Depot	Home Depot: SKU # 827654	1	3M Pro Grade 4-1/2 in. x 2-7/8 in. Fine Dual-	Used to clean PVC pipes and sand	
or Lowes	Lowes Item # 68461		Angle Sanding Sponge	wooden pieces for priming and painting.	