

FIRST Robotics Competition 2005 Advance Material List					
Rev. 4 1/5/05					
Item	Material	Quantity	Cost/ea	Ext. Cost	Source
1	10 ft. x 1 1/4 in. Sch. 40 Electrical Conduit (Grey) PVC	10	\$3.29	\$32.90	Home Depot
2	1 1/4 in. PVC Schedule 40 End Cap	24	\$0.51	\$12.24	Home Depot
3	1 in. PVC Sch. 40 Coupling (1 5/8 in. OD)	1	\$0.29	\$0.29	Home Depot
4	3/4 in. PVC Sch. 80 pipe (or a 3/4 in. schedule 80 PVC pipe nipple)	6 in			Home Depot
5	1 ft x 1 ft x 1/4 in thick polycarbonate (Lexan)	1	\$8.10	\$8.10	McMaster #8574K28
6	1/4 in x 4 ft. x 8 ft. Plywood or Luan	1	\$10.00	\$10.00	Home Depot
7	1/2 in. x 4 ft. x 8 ft. Plywood	1	\$15.00	\$15.00	Home Depot
8	1 in. x 3 in. x 8 ft. SPF Lumber*	1	\$1.97	\$1.97	Home Depot
9	2 in. x 3 in. x 8 ft. SPF Lumber*	1	\$1.97	\$1.97	Home Depot
10	#8 x 1 1/4 in. Flat Head Wood Screw	1/2 lb.			Home Depot
11	1/4 in. x 3/4 in. Hex Head Bolt	24	\$0.12	\$2.88	Home Depot
12	1/4 in. Washer	24	\$0.05	\$1.20	Home Depot
13	1/4-20 x 5/16 in. high Threaded Tee Nut	24	\$0.22	\$5.34	Home Depot, McMaster #90975A025
14	2 in. OD x 1/2 (9/32 in. ID) Fender Washer- Steel	4	\$0.20	\$0.80	Fastenal- Nick- 603-647-1890 or McMaster Carr www.mcmaster.com or Ace Hardware
15	10-24 x 1.75 Flat Head Machine Screw	2	\$0.10	\$0.20	Home Depot or Ace Hardware
16	10-24 Elastic Stop Nut (Nylok)	5	\$0.09	\$0.45	Home Depot or Ace Hardware
17	10-32 x 1.75 Socket Head Cap Screw	12	\$0.47	\$5.64	McMaster #91255A276
18	10-32 nut	12	\$0.01	\$0.10	McMaster #90480A195
19	#10 Washer	2	\$0.05	\$0.10	Home Depot or Ace Hardware
20	4-40 x 1/4 in. Phillips head screw	4	\$0.05	\$0.20	Home Depot or Ace Hardware
21	4-40 x 3/8 in. Phillips head screw	1	\$0.05	\$0.05	Home Depot or Ace Hardware
22	4-40 nut	2	\$0.05	\$0.10	Home Depot or Ace Hardware
23	#4 flat washer	4	\$0.05	\$0.20	Home Depot or Ace Hardware
24	Shallow Pot Magnet- General P/N 376B	1	\$4.85	\$4.85	Grainger Cat. # 3G901, McMaster # 5685K32
25	ANSI 35 Connecting Link	1	\$0.57	0.57	McMaster #6261K191
26	3/8 in dia Bolt, 5 in. long	4			Home Depot
27	Washer for 3/8 bolt	4			Home Depot
28	3/8 Elastic Stop Nut (Nyloc) for 3/8 bolt	4			Home Depot
29	1/2 in OD, 3/8 in ID hollow rod, polycarbonate (need 16 in.)	8 ft	\$6.40	\$6.40	McMaster #8585K12
30	Behr Premium Plus Interior Flat Wall Paint- Sunny Summer (S-G-380)	1 qt			Home Depot
31	4 in. x 2 in. x 1 in. Project Box	1	\$2.69	\$6.40	Radio Shack #270-1802
32	Lithium Multi-Purpose Grease				Hardware or Auto Store
*Note: US dimensional lumber SPF (Spruce, Pine or Fir) actual size is smaller than its name					
1 in. x 3 in. is approx. 3/4 in. x 2 1/2 in.					
2 in. x 3 in. is approx. 1 1/2 in. x 2 1/2 in.					