






























Material List						Engineering Design Toolkit Activities						
						PVC Bridge Activity - Five Possible Variations					Amount of Materials Available for this Activity	Total Cost
						Type 1	Type 2	Type 3	Type 4	Type 5		
Part #	Name	Image	Price/Unit	Description	Store	Quantity						
1	90 Degree Elbow		\$ 0.19	Fitting: Slip x Slip	Home Depot	4	4	4	4	4	6	\$ 1.14
2	Cross		\$ 0.98	Fitting: Slip X Slip X Slip X Slip	Home Depot	0	0	0	0	0	0	\$ -
3	Male Adapter		\$ 0.35	Fitting: Slip X MIPT	Home Depot	0	0	0	0	0	0	\$ -
4	Threaded Tee		\$ 1.61	Fitting: FIPT X FIPT X FIPT	Home Depot	0	0	0	0	0	0	\$ -
5	Tee		\$ 0.26	Fitting: Slip X Slip X Slip	Home Depot	4	4	6	8	8	8	\$ 2.08
6	Creatology Wood Dowel		\$ 0.75	Dimensions: 12" X 3/4" wooden dowels	Michaels	0	0	0	0	0	0	\$ -
7	Wood Toy Wheel		\$ 0.95	2" Diameter Wood Wheel	Michaels	0	0	0	0	0	0	\$ -
8	1/2" PVC pipe, L = 2"		\$ 0.03	L= 2" x Dia. =1/2" PVC pipe	Home Depot	0	0	0	0	0	0	\$ -
9	1/2" PVC pipe, L = 3"		\$ 0.05	L= 3" x Dia. =1/2" PVC pipe	Home Depot	4	8	5	6	10	10	\$ 0.50
10	1/2" PVC pipe, L = 5"		\$ 0.08	L= 5" x Dia. =1/2" PVC pipe	Home Depot	6	4	8	8	6	8	\$ 0.64
11	Female Connector		\$ 0.31	Fitting: Slip X MIPT	Home Depot	0	0	0	0	0	0	\$ -
12	Rubber band		\$ 0.05	Elastic rubber band	Home Depot	0	0	0	0	0	0	\$ -
13	Projectile		\$ 0.13	Ping Pong balls	Dollar Tree	0	0	0	0	0	0	\$ -
14	Storage Tote		\$ 7.49	Container	Dollar Tree	1	1	1	1	1	1	\$ 7.49
15	Tape Measuring Device		\$ 1.00	Tape Measure	Dollar Tree	1	1	1	1	1	1	\$ 1.00
16	Scotch Tape		\$ 0.50	adhesive tape	Dollar Tree	1	1	1	1	1	1	\$ 0.50
17	Dry Erase Board		\$ 1.00	Designing paper	Dollar Tree	1	1	1	1	1	1	\$ 1.00
18	Plastic Cup		\$ 0.06	12 oz	Dollar Tree	0	0	0	0	0	0	\$ -
19	45 degree elbow		\$ 0.65	Fitting: Slip X Slip	Home Depot	0	0	0	0	0	0	\$ -
20	(1/2 x 3/4) Tee		\$ 0.67	Fitting: Slip X Slip X Slip	Home Depot	0	0	0	0	0	0	\$ -
21	Bridge Runway		\$ 1.00	Recycled binders	Dollar Tree, yard sale	1	1	1	1	1	1	\$ 1.00
22	Smart Water Bottle		\$ 0.50	20 oz bottle	Recycling Center	0	0	0	0	0	0	\$ -
23	Paper Rocket		\$ 0.01	For catapult only	Target	0	0	0	0	0	0	\$ -
24	RC Car		\$ 9.99	For Bridge Activity	Fred Meyers	1	1	1	1	1	1	\$ 9.99
25	AAA Batteries		\$ 0.69	For RC car	Fred Meyers	4	4	4	4	4	4	\$ 2.75
26	Basket		\$ 1.00	For car activity	Dollar Tree	0	0	0	0	0	0	\$ -
27	ZipLoc Bag		\$ 0.45	ZipLoc Bag	Winco	1	1	1	1	1	1	\$ 0.45
	1-1/2" PVC Bushing		\$ 1.47	1-1/2" PVC Bushing	Home Depot	0	0	0	0	0	0	\$ -
28	1/2" PVC EL 90D		\$ 0.70	1/2" PVC EL 90D	Home Depot	0	0	0	0	0	0	\$ -
Grand Total Number of Items needed for this activity				43	Cost of Model Type	\$ 26.66	\$ 26.70	\$ 27.39	\$ 27.96	\$ 28.00	Total Part Cost	\$ 28.54