

SUBSYSTEM					
Material	Description	Bulk Dimensions	# Units req.	Possible Supplier	Supplier Part #
OUTER TANK					
glass	clear glass system storage tank	21.2X21.2X21.5 CM (internal)	1	(search locally)	
INNER WALLS					
cast acrylic - white	side plate	23X30 cm X 6mm	2	(search locally)	
cast acrylic - white	back plate	23X30 cm X 6mm	1	(search locally)	
cast acrylic - white	front plate	23X30 cm X 6mm	1	(search locally)	
cast acrylic - clear	side plate	23X30 cm X 6mm	2	(search locally)	
cast acrylic - clear	back plate	23X30 cm X 6mm	1	(search locally)	
cast acrylic - clear	front plate	23X30 cm X 6mm	1	(search locally)	
DRIVE SYSTEM					
ABS filament	passive roller	3cmX10cm 1 hour print	2	Up FFF Printer	
ABS filament	drive roller	5cmX10cm 1.5 hour print	1	Up FFF Printer	
ABS filament	support block	~10cmX10cm 2 hour print	1	Up FFF Printer	
rubber	conveyor sheet	15X60cm	1	(search locally)	
aluminum	aluminum (or other) axle rod	4cm length 8mm diameter	5	(search locally)	
ELECTRONICS					
mixed	stepper HT23-400	see file	1	MOUSER	834-HT23-400
mixed/pcb	arduino uno	see file	1	MOUSER	782-A000073
mixed/pcb	motor shield	2.5X2X.75cm	1	MOUSER	782-A000079
mixed	6v power supply	2.5X2X.75cm	1	MOUSER	553-WSU060-2000
mixed	12v power supply	n/a	2	MOUSER	694-101-1199
mixed	usb cable	100cm	1	MOUSER	782-A000045
MISCELLANEOUS					
ABS	project box	larger than controller	1	MOUSER	
ABS	storage Box	L45 x W29 x H27 cm	1	(search locally)	
stainless steel	countersunk M5 bolts 12-20mm/plated	5mmX12-20	5	(search locally)	
stainless steel	regular M5 bolts/plated	5mmX10-20	21	(search locally)	
nylon	string (to bond conveyor belt)	1m	1	(search locally)	
stryfoam	support brick	~10X10X1 cm	1	(search locally)	
VISUALIZATION					
water + microparticles	rheoscopic fluid	50ml high concentration per liter	1	(scientific supplies)	
mixed	LED strip	~1cm X 20cm, ~10 LEDs	1	MOUSER	