

What is Engineering
2007
Supply List

Experiment	Materials	Quantity (per site)	Source	Vendor
Distillation	Goggles	24	lab kit	Fisher
	Thermometer	4	lab kit	Fisher
	Hydrometer (0.8-0.9) (0.9-1.0)	2 each	lab kit	Thomas 6026F15 6025F20
	Graduated cylinder (50 ml)	2	lab kit	Thomas 3557B73
	ceramic hotplate	2	lab kit	Fisher 11-510-49hq
	Erlenmeyer flask (x1) (1000 ml)	2	lab kit	Fisher
	Flask rubber stoppers (#9 w/ 2 holes, #4 w/ 1 hole)	2 each	lab kit	Fisher 14-140L 14-135F
	Plastic collection bottles (70cc)	6	lab kit	Fisher
	800ml of 10% ethanol	2	instructor supplied	
	300 mm Graham condenser	2	lab kit	Science Co. NC-0271
	3/8" ID rubber tubing 5'	4	lab kit	Fisher 14-178e
	1/4" ID rubber tubing 1.5'	2	lab kit	Fisher 14-178c
	Ring Stands	2	lab kit	Fisher
	90 deg ring stand clamps	4	lab kit	
	Adjustable ring stand clamps	4	lab kit	Fisher
Boiling Efficiency	1.5qt saucepan with top	2	instructor supplied	
	Toastmaster 6420 hotplate	2	lab kit	Target.com
	"KILL A WATT"	2	lab kit	supermediastore.com
	Mini IR thermometer 42500 (extech instruments)	2	lab kit	Amazon.com
Paper Chromatography	Parafilm	1 box	lab kit	Fisher
	1 package of "Whatman" filters, 185 mm, Cat # 1001 185	1 box	consumables	Fisher
	Propanol (isopropyl alcohol)	50 ml	instructor supplied	
	Ethanol	50 ml	instructor supplied	
	STAEDTLER non-permanent markers (org, blk, prpl, brwn)	2 each color	consumables	DU-All Drafting and Art, MI
	250 ml beakers for chromatography	6	lab kit	Fisher
Materials Lab	5# Pelouze postal scale	2 5#		Officedepot.com #752861
	10# Pelouze postal scale	1 10#	lab kit	#524856
	12" ruler	6	lab kit	
	Bending apparatus	2	lab kit	Custom

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	Tension apparatus	2	lab kit	Custom
	Vernier caliper	3	lab kit	Fisher s90548
	00 lead buckshot (for weights)	10#	lab kit	www.precisionloading.com
	Spaghetti #8 #9 #11		instructor supplied	
	200 1/8 x 1-1/4 Cotter Pins	1	consumables	McMaster pkg 1000 98338a475
Robot Build	7400 TTL chips ~3 per experimenter	18	lab kit	www.unicornelectronics.com
	Protoboard	8	lab kit	SRS
	Protowire kit	6	lab kit	SRS
	Light-seeking car	1	lab kit	JHU supplied
	Flashlight	1	lab kit	
Mousetrap	Glue (Elmer's)	6	instructor supplied	
	scissors	6	lab kit	
	Ruler	6	lab kit	OD
	Ping Pong Ball	2	lab kit	Dicks
	Card stock ~11" x 18"	20	consumables	supplied consumable
	Rubber bands	1 bag	lab kit	supplied consumable
Remote measurements lab	Masking tape	6	consumables	OD
	Meter sticks	12	lab kit	OD
	String (1 ball 250 ft. to be cut into 10m pieces)	1	consumables	e.g. Baumgartner's #24

5/30/2007