

# WTP-ME Rube Goldberg Machine Challenge 2006

## MATERIALS LIST

Below is a list of all the materials you should find in your Rube Goldberg Machine Kit. Please make use of whatever materials in that kit you think would be useful when you do testing and in your final machine. We require you to keep track of what you have used, so make sure to mark off an approximate amount of each material you used over the week. Items in red cannot be modified.

**TEAM NAME:** \_\_\_\_\_

CATEGORY	DESCRIPTION	QTY	Bin	QTY USED
Adhesives	Duct tape – 45'	1	W	
Adhesives	Sticky back foam	1	W	
Adhesives	Hot Glue Gun	1	W	
Adhesives	Velcro - 1 yd sticky back	1	G	
Construction	450 mm Stainless hinge	1	G	
Construction	PVC elbows (90° and 45°)	2	W	
Construction	PVC Ts	1	W	
Construction	PVC pipes - 1 1/4" dia, 2 ft	1	G	
Construction	PVC pipes - 1" dia, 2 ft	1	G	
Construction	Flexible rectangular elbow	1	W	
Construction	5/8" eyehooks, cls & open	2	W	
Construction	Tygon tubing - big dia., 2m	1	G	
Construction	Tygon tubing - small dia., 2m	1	G	
Electrical	9 V battery in clear box	6	W	
Electrical	Small DC motor	2	W	
Electrical	Hair dryer	1	G	
Fasteners	Rubber bands	>20	G	
Fasteners	Paper Clips: Jumbo, individual	>40	G	
Fasteners	Magnets - small	10	W	
Fasteners	Zip ties and anchors		G	
Fasteners	Pipe cleaners	30	G	
Fasteners	Springs in clear box	4	G	
Fluids	Gallon bottle of water	1	none	
Home Goods	Aluminum foil	1	W	
Home Goods	Bendy straws - box	1	W	
Home Goods	Funnels - large	1	G	
Home Goods	Funnels – small	1	G	
Home Goods	Plastic Spatula	1	W	
Home Goods	Wire Whisk	1	W	
Home Goods	Baking Soda	1	G	
Home Goods	Vinegar	1	G	
Home Goods	Styrofoam Cups	10	W	
Home Goods	Mouse Traps	2	G	
Home Goods	Thread spools	13	W	
Lumber	1/2"x1"x8 feet	2	none	
Lumber	2"x4"x8 feet	2	none	
Lumber	Plywood 1/4"x16"x16"	1	W	
Materials	Aerosol can compressed air	1	G	
Materials	Modeling clay (stick)	2	G	
Materials	Twine	1	G	
Materials	Soft Wax - 1'x1' sheet	4	W	
Materials	Silly Putty	1	W	
Materials	Magnetic steel, 1"x12"xthickness	1	G	
Materials	Teflon 1"x12"x1/8 thick	1	W	
Materials	Copper 1"x12"x1/16 thick	1	W	
Materials	Popsicle sticks	50	G	

CATEGORY	DESCRIPTION	QTY		QTY USED
Measurement	12" metal ruler	1	G	
Measurement	Plastic meas. Cups w/ handle	1	G	
Measurement	Wooden meter stick	1	G	
Office Supplies	Wood pencils w/erasers - 12 pk	1	G	
Toys	Golf balls	6	G	
Toys	Hat	1	W	
Toys	Balloons	12	G	
Toys	Little car	1	G	
Toys	Mini kickball	1	G	
Toys	Tennis Balls in container	3	W	
Toys	Pail	2	G	
Toys	Playing cards (deck)	1	G	
Toys	Slinky	1	W	
Toys	Superballs - Medium	15	W	

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## BONUS MATERIALS LIST

Your team is allowed two additional items from the list below. Please mark which item you have picked and if applicable, how much has been used.

**TEAM NAME:** \_\_\_\_\_

CATEGORY	DESCRIPTION	QTY	QTY USED
Adhesives	4 oz school glue	2	
Adhesives	Band-aids	20	
Adhesives	Contact Cement	1	
Adhesives	Scotch tape roll	1	
Construction	2.5" flat corner braces	1	
Construction	2.5"x2.5" corner braces	1	
Construction	Sandpaper	2	
Construction	Mending Plates	1	
Construction	Wood dowels, asst	2	
Electrical	Fans	1	
Fasteners	Binder clips: large - individual	2	
Fasteners	Binder clips: medium - box	1	
Fasteners	Binder clips: small - box	1	
Fasteners	Magnets - square	2	
Fasteners	Pushpins, 20-pack	1	
Fasteners	Safety Pins: assorted 22-pack	1	
Fasteners	Paper Clips (No. 1), box of 100	1	
Fasteners	Springs - Small	15	
Home Goods	Rat Traps	2	
Home Goods	Toilet paper	1	
Home Goods	Turkey roasting pan	1	
Materials	Foam EVA sheet	4	
Materials	Heavy cardstock, sheet	10	
Materials	Lexan, 1"x12"xthickness	1	
Materials	Plastic Drop Cloth 2'x9'	1	
Materials	Roll adding machine paper	1	
Toys	Ping pong balls	6	
Toys	Superballs - Large	4	
Toys	Superballs - Small	24	