

Male Barrier Model

Week 13: 4/17/09 – 4/24/09

Team Members: Whitney Johnson – BSAC
John Cheadle - BWIG
Terra Gahlman – Communicator
Nick Balge – Team Leader

Advisor: Prof. Pamela Kreeger

Client: Prof. Marge Sutinen

Next meeting: 5/8/09, 12:05pm

Problem Statement:

To design a portable teaching tool to demonstrate the strength of polyurethane and latex barriers, using weights and a scale.

Team Goals:

Finalize plans for building. Purchase necessary parts and finish the main structural work for the design.

Individual Goals:

John	Obtain more condoms
Whitney	Consider funnel mounting options, find a camera
Terra	Look into pellet cushioning, get rubber bands
Nick	Find tubing and funnel attachment, buy wire for pipe attachment

Summary of Accomplishments:

We cut two smaller dowels off of the larger piece and sanded them to fit inside of the poles, leaving the full 7/8" diameter for on the bottom 3/4" of each dowel to fit in the base. We also stained the dowels. We located a base, trimmed its dimensions, and drilled holes in it for the dowels to be placed in. The pipe onto which the condom will be mounted was cut to the proper length, and a hole was drilled through it so that it could be hung on the scale. Wire was bought for this attachment. Tubing was located and mounted inside of the funnel. Additional holes were cut in the L brackets for mounting of the funnel, and the funnel was also cut so that it would have a flat edge to more easily be glued onto the back of the scale. A container was located for pellet containment, and options were investigated to cushion the fall of the lead pellets.

Difficulties:

none

Activities:

4/17/09	Team	Cut, sanded, and stained dowels, located base	2.00h
4/21/09	Team	Measured, cut, and drilled base, cut pipe	3.00h
4/22/09	Whitney	Considered funnel attachment, located camera	1.00h
4/22/09	John	Located more condoms	0.50h
4/22/09	Terra	Located padding and rubber bands	1.50h
4/22/09	Nick	Found tubing and connection, bought wire	1.00h
4/23/09	Team	Cut funnel, L bracket holes, sanded holes	2.00h

	John	Terra	Whitney	Nick	Team
Past Week	0.50h	1.50h	1.00h	1.00h	7.00h
Previous Total	29.50h	29.00h	29.00h	29.50h	19.50h
Total	30.00h	30.50h	30.00h	30.50h	26.50h

Expenses:

Item/work done	Price	Quantity	Shipping/Tax	Total
Alum. poles	\$7.99	2	\$8.64	\$24.62
Analog scale	\$33.39	1	\$6.87	\$40.26
10 lb lead pellets	\$33.69	1	\$9.26	\$42.95
L bracket	\$15.17	1	\$0.83	\$16.00
	\$2.29	1	\$0.13	\$3.42
Total				\$111.25