

# Male Barrier Model

Week 12: 4/10/09 – 4/17/09

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**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:** 4/24/09, 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:**

Purchase material for “L” brackets that will be cut, drilled, and glued onto the back of the scale as the pole mount. Start work in the shop, primarily on the base and scale mount. Continue to think about options for attachment of PVC pipe to the scale, pellet delivery, and pellet containment.

**Individual Goals:**

John	Work on base, mount, and dowels in shop, look for funnels
Whitney	Base, mount, and dowels, purchase “L” bracket
Terra	Base, mount, and dowels
Nick	Base, mount, and dowels, look for tubing

**Summary of Accomplishments:**

We have purchased a piece of aluminum for use as the scale mount. Dimensions for cutting were measured, and two pieces were sawed off of the main piece, each about 6.75” long. Holes of .9375” diameter were cut through one of the metal pieces allowing .125” of metal between the outside of the holes and the edge of the piece. We have made further plans to work in the shop Friday 4/17 during which time we plan to measure and sand the dowels so that they will fit into both the bottoms of the poles and the base. We will then inquire for a relatively inexpensive or free piece of wood that is able to be shaped and drilled through and would serve as the base.

**Difficulties:**

none

**Activities:**

4/12/09	Whitney	Bought L shaped piece of aluminum for mounts	1.00h
4/12/09	John	Obtained funnels, PVC box research	1.00h
4/16/09	Whitney	Complete shop quizzes	2.00h
4/14/09	Nick, Terra, John	Measured, cut, and drilled mounts for scale	3.00h

	John	Terra	Whitney	Nick	Team
Past Week	4.00h	3.00h	3.00h	3.00h	0.00h
Previous Total	25.50h	26.00h	26.00h	26.50h	19.50h
Total	29.50h	29.00h	29.00h	29.50h	19.50h

**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
Total				<b>\$107.83</b>