

APPENDIX A: Image of demonstrate moment lab and calculations

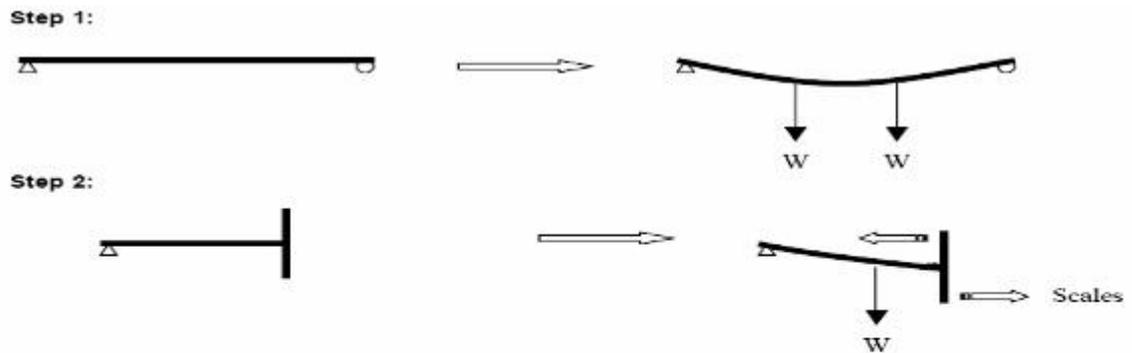


Figure 3a: Two students demonstrate moment in Lab. The “beam” is made out of PVC pipe. There are actually two PVC beams: one behind, to which a moment is being imparted by two hanging weights, and one in front, which is cut in half so that students can measure the amount of force required to duplicate the curve of the pipe behind it.

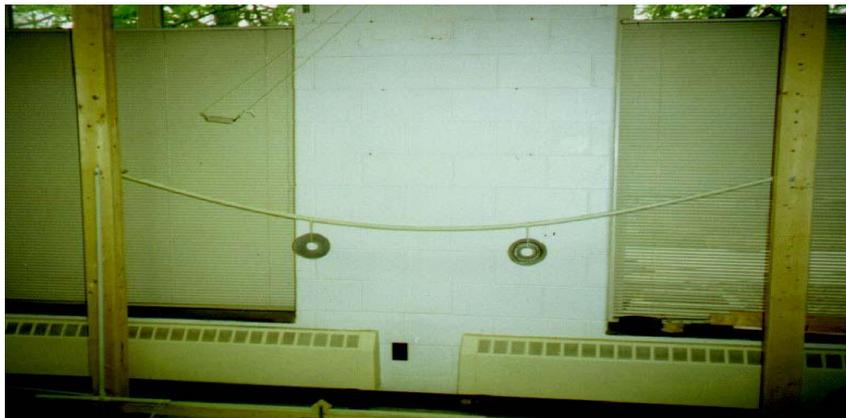
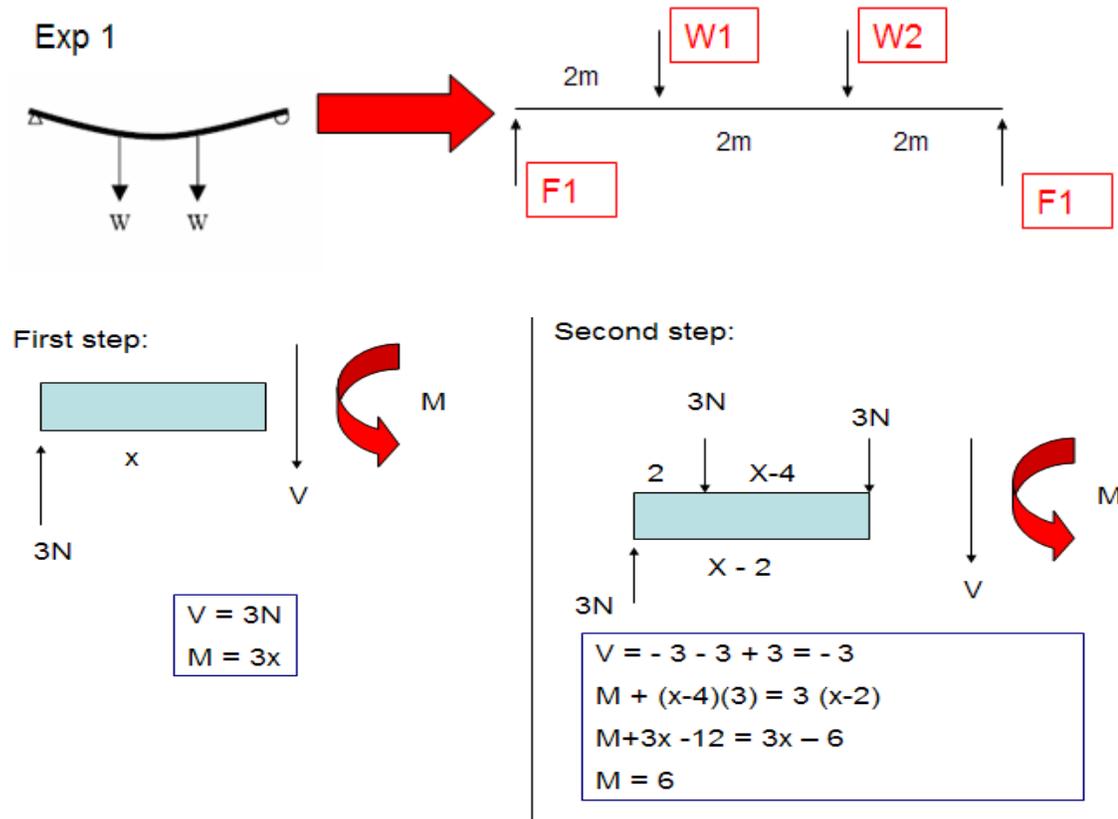


Figure 3b: simple moment demonstration

Example of calculations:



Shear and moment diagram

