## Physics Lab Handout 11 "Atwood's Machine"

Your Name:				Lab Partner(s):						
Problem:		you determine Machine?	the	mass	of	а	small	washer	using	an
Hypothesi	s:									
——— Materials	:									
ring stand meter stick			ring clamp 10 large washers			rs	pulley C-clamp			

small washer

balance

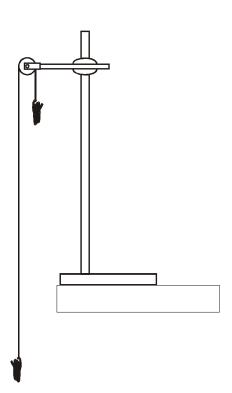
Caution: (no special concerns)

paperclips

stopwatch

## Procedure:

- 1. Rig up an Atwood machine using a low friction pulley, a ring stand, and a clamp as shown in the drawing.
- 2. A light string should be run over the pulley. Attach a paper clip to the two ends of the string. Add five large washers to the paperclips on each side. The mass on each side should be balanced so the system does not accelerate.
- 3. Measure and record the mass on each side.
- 4. Take one small washer and add it to one of the paper clips tied onto the string.
- 5. Determine the mass of the small washer using the Atwood Machine.
- 6. Once you have calculated the mass of the small washer, measure it directly to determine your percent error.
- 7. May the force be with you.



string

Observations:

Data:

iagram:			
nclusion: _		 	 