

# Atwood's Apparatus

## Setup Instructions

### Parts Checklist

The following items are provided with Spinner:

- Red String with Lanyard Clips
- Atwood's Apparatus
- 8 Plastic Washers
- 2 Weight Hanger
- 1 Black Knob
- 1 Timing Spacer
- 2 Nuts



In addition, you will need these items:

- Physics Stand
- Photogate
- DataCollector or Timer
- Metal Washer Masses

### Setup for Atwood's Apparatus

1. Insert threaded stud on Atwoods Apparatus into the top hole of Physics Stand and secure with black knob (A).
2. When using photogate, slide one leg of photogate into bracket, and adjust the thumbscrew back until it is tight against the bracket (B).
3. On each weight hanger, place a nut and a quantity of metal washers (optional) (C). Eight washers is a good start.
4. On one of the two hangers Add 6-8 plastic washers. NOTE: The plastic washers allow you to add mass in smaller increments (D).
5. Attach the weight hangers to the lanyard clips on each end of the red string.
6. Lower the lighter mass hanger to the Physics Stand Base and hold until the other hangers is still.
7. Release and take measurements.

Approximate weights  
 Weight Hanger  $\approx$  6 grams  
 Metal Washer  $\approx$  12 grams  
 Plastic Washer  $\approx$  2 grams  
 Nut  $\approx$  27.5 grams  
 String w/ 2 clips  $\approx$  5.5 grams

