

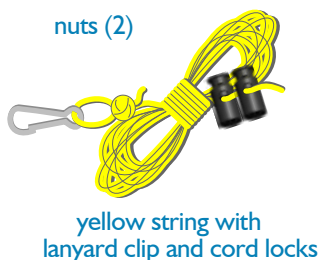
Dynamic Pulleys

Setup Instructions

Parts Checklist

The following items are provided with Dynamic Pulleys:

- Upper Pulley Block
- Lower Pulley Block
- Yellow String with Lanyard Clip and Cord Locks
- Red Safety String
- 8 Plastic Washers
- 2 Weight Hangers
- 2 Nuts
- Lanyard Clip
- 2 Blue Knobs

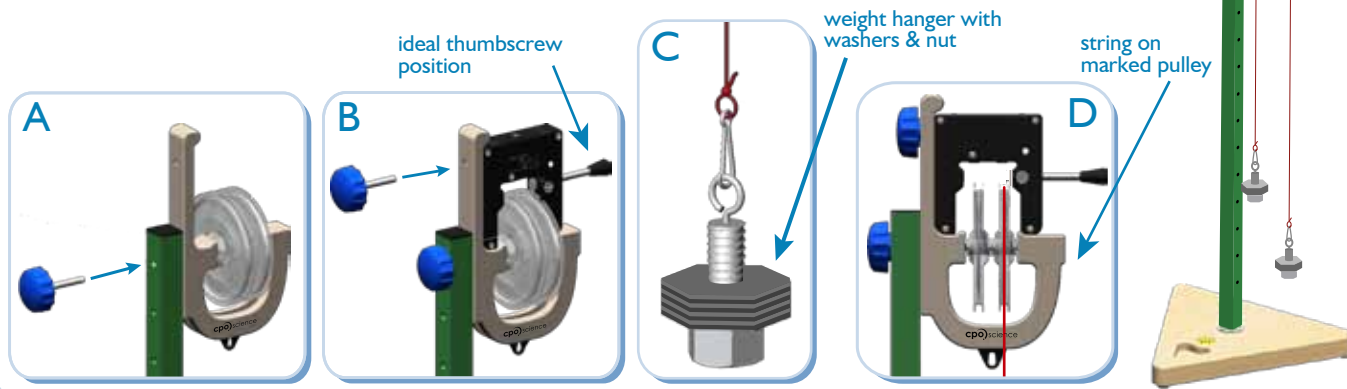


In addition, you will need these items:

- Physics Stand
- Measuring Tape
- Spring Scales
- Photogate
- DataCollector
- Electronic Scale
- Washer Masses

Setup for Atwood's Machine

1. Place the Upper Pulley Block on the top hole on the Physics Stand. Secure the pulley with a blue knob (A).
2. Place the Photogate on top of the pulley block and secure using the blue knob (B). Make sure the Photogate thumbscrew is completely retracted so that it does not interfere with the pulley wheels.
3. Configure the red safety string to have a lanyard clip at both ends.
4. Attach a weight hanger to each lanyard clip.
5. Place a nut on the weight hanger. You may also add washers (optional) on each weight hanger and secure with a nut (C).
6. Place the assembled string on the pulley wheel with the indexed marking (D).

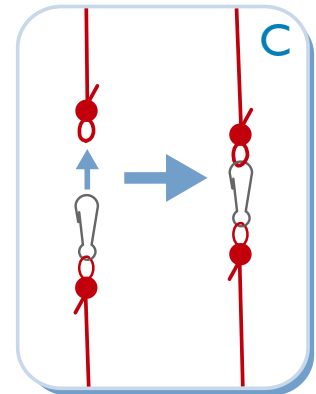
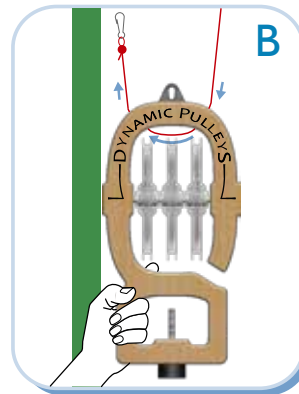
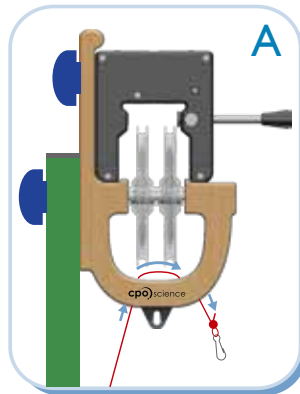


Dynamic Pulleys

Setup Instructions

Attaching the Safety String

1. Thread one end of the red safety string through the channel at the bottom of the upper pulley (A).
2. Hold the lower pulley and thread the string through the channel at the top of the pulley (B).
3. Clip the two ends together (C). To see the final look see 'Setup for Simple Machines'.



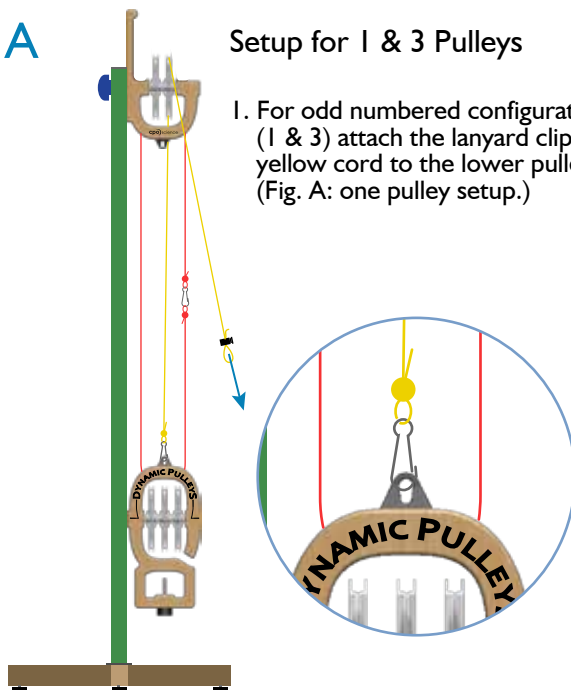
Setup for Simple Machines

General Setup for 1 – 4 Pulleys

1. All 1 – 4 pulley configurations involve a downward pulling motion.
2. Try to balance the pulleys as much as possible. Example: When using 3 pulleys, use one on the upper and the outer pulleys on the lower pulley block.

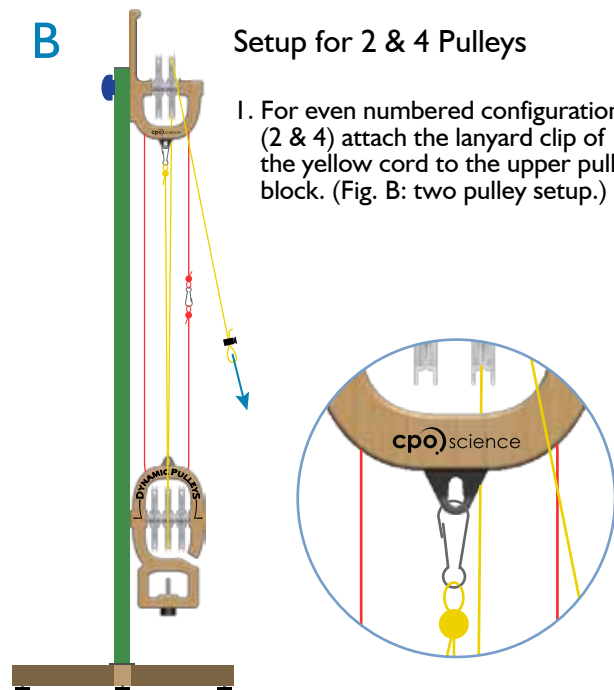
A Setup for 1 & 3 Pulleys

1. For odd numbered configurations (1 & 3) attach the lanyard clip of the yellow cord to the lower pulley block. (Fig. A: one pulley setup.)



B Setup for 2 & 4 Pulleys

1. For even numbered configurations (2 & 4) attach the lanyard clip of the yellow cord to the upper pulley block. (Fig. B: two pulley setup.)



Note: Photogate is optional. When pulling the pulley string, pull as straight down as possible.