

Tri-Force Ring

Setup Instructions

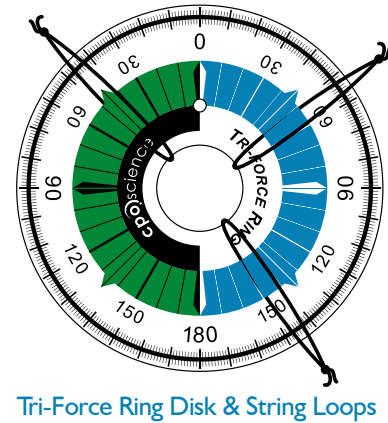
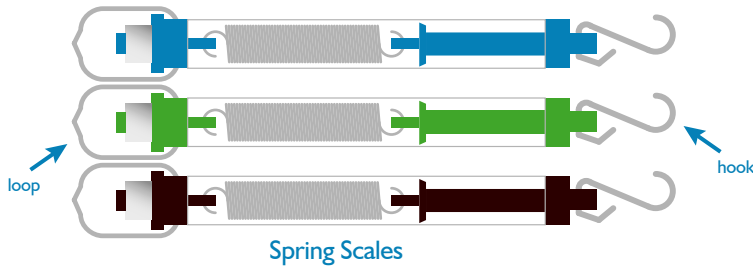
Parts Checklist

The following items are provided with Tri-Force Ring:

- Tri-Force Ring Disk with 3 String Loops

In addition, you will need these items:

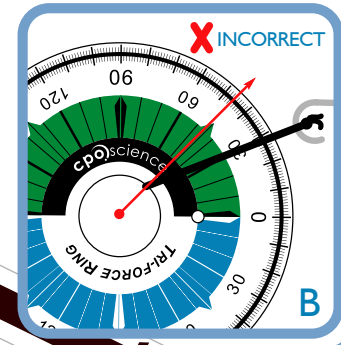
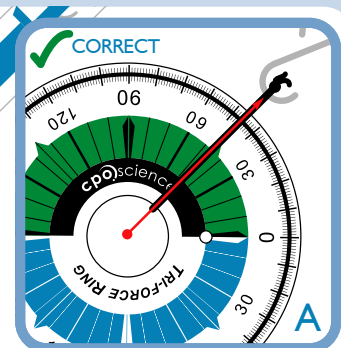
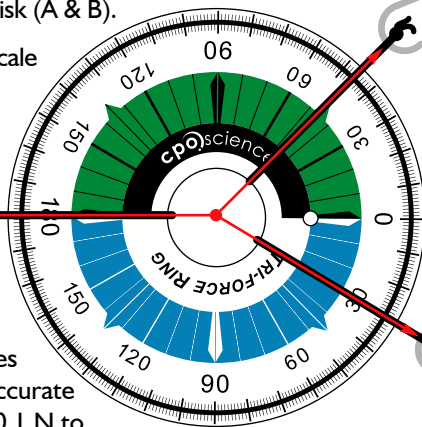
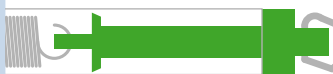
- Spring Scales (You can use 1 to 3 Spring Scales at a time)



Setup for Tri-Force Ring

(Using three Spring Scales)

1. Hold each spring scale vertically from its loop and check to see if it is properly calibrated. If it needs to be adjusted, turn the nut at the top of the scale until it reads zero.*
2. Hook one Spring Scale to each of the string loops on the Tri-Force Ring Disk.
3. Pull on the loop of the Spring Scales slowly and simultaneously from 3 different angles with your lab partners. Try to ensure that the strings are pulling radially from the center of the disk (A & B).
4. Record the force value on the Spring Scale and the angle of action (the position of the string).



* Note on calibration: When performing the investigation, the action of the forces is in the horizontal plane. For a more accurate reading, scales should be calibrated to 0.1 N to account for the vertical force contributed by the hook assembly of the scale.