

# Conservation of Angular Momentum

## INTRODUCTION

In your study of linear momentum, you learned that, in the absence of an unbalanced external force, the momentum of a system remains constant. In this experiment, you will examine how the *angular* momentum of a rotating system responds to changes in the moment of inertia,  $I$ .

## OBJECTIVES

In this experiment, you will

- Collect angle vs. time and angular velocity vs. time data for rotating systems.
- Analyze the  $\theta$ - $t$  and  $\omega$ - $t$  graphs both before and after changes in the moment of inertia.
- Determine the effect of changes in the moment of inertia on the angular momentum of the system.
- Find the moment of inertia of an oddly shaped object.

## MATERIALS

Vernier data-collection interface  
Logger Pro or LabQuest App  
Vernier Rotary Motion Sensor  
Vernier Rotary Motion Accessory Kit

ring stand  
balance  
metric ruler

## PRE-LAB

1. Mount the Rotary Motion Sensor to the ring stand. Place the 3-step Pulley on the rotating shaft of the sensor so that the largest pulley is on top. Measure the mass and diameter of the aluminum disk with the smaller hole. Mount this disk to the pulley using the longer machine screw and sleeve (see Figure 1).



Figure 1

2. Connect the sensor and open Logger Pro. The default data-collections settings are appropriate for this experiment.

# Conservation Of Momentum Experiment 14 Answers

**Tobias Bleicker**



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**Documents of the Senate of the State of New York** New York (State). Legislature. Senate,1901      Science Abstracts ,1928      *Radiologic Science for Technologists* Stewart C. Bushong,1993 This text aims to bring students up to date with radiologic science Now in its fifth edition it includes new chapters such as image contrast and fast imaging techniques of MRI duplex technology of diagnostic ultrasound and quality assurance in x ray imaging      **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2003      *Scientific American*

,1874     **Journal of Physical Oceanography** ,1978     *35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit* ,1999     A Text Book of Physics for the Use of Students of Science and Engineering John Duncan,Sydney George Starling,1918

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