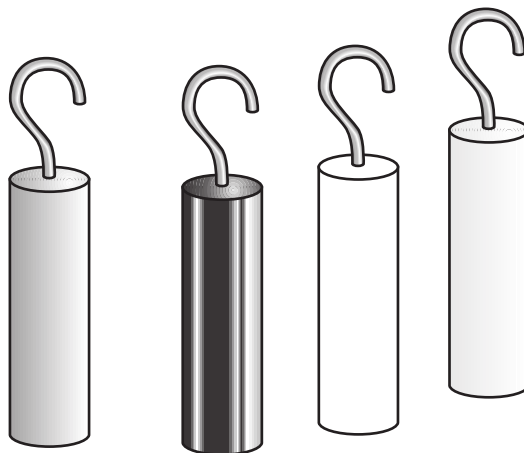# PASCO

Photogate Pendulum Set
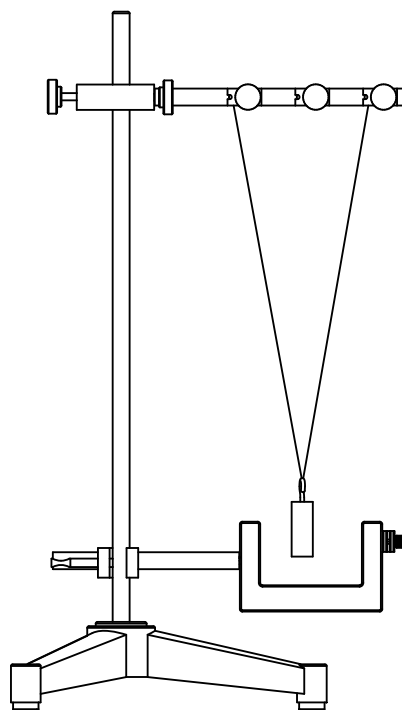
ME-8752

Introduction

The Photogate Pendulum Set is designed for use with a PASCO photogate. The photogate can be used with data collection software to time the period of the various pendula very precisely. The set contains four cylindrical pendula identical in size and made of different materials. This set can also be used as a multipurpose pendulum set without the use of photogates.

Items included

- Brass Pendulum

- Aluminum Pendulum

- Plastic Pendulum

- Wood Pendulum

Pendulum experiment setup

The various pendula can be suspended from a support rod using a Pendulum Clamp (ME-9506). The photogate is blocked each time the pendulum passes through the photogate. Three successive blocks of the photogate constitute one period of the pendulum. The "V" shaped arrangement of the string ensures that the pendulum will swing back and forth in the same plane.

Using this experimental setup, students can investigate how the pendulum period is related to the length, mass, and amplitude. In all cases, the effects of air resistance are held constant since the shape and size of the pendula are identical. For data collection instructions, search for "pendulum timer" in the PASCO Capstone or SPARKvue Help.

Experiment files

Download one of several student-ready activities from the PASCO Experiment Library. Experiments include editable student handouts and teacher notes. Visit **pasco.com/freelabs/ME-8752**.

Software help

The SPARKvue and PASCO Capstone Help provide additional information on how to use this product the with the software. You can access the help within the software or online.

SPARKvue

Software	Main Menu ☰ > Help
Online	**pasco.com/help/sparkvue**

PASCO Capstone

Software	Help > PASCO Capstone Help
Online	**pasco.com/help/capstone**

Specifications and accessories

Visit the product page at **pasco.com/product/ME-8752** to view the specifications and explore accessories. You can also download experiment files and support documents from the product page.

Technical Support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

💬 **Chat**	**pasco.com**
📞 **Phone**	1-800-772-8700 x1004 (USA)
	+1 916 462 8384 (outside USA)
@ **Email**	**support@pasco.com**

Warranty, copyright, and trademarks

Limited warranty

For a description of the product warranty, see the Warranty and Returns page at **pasco.com/legal**.

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