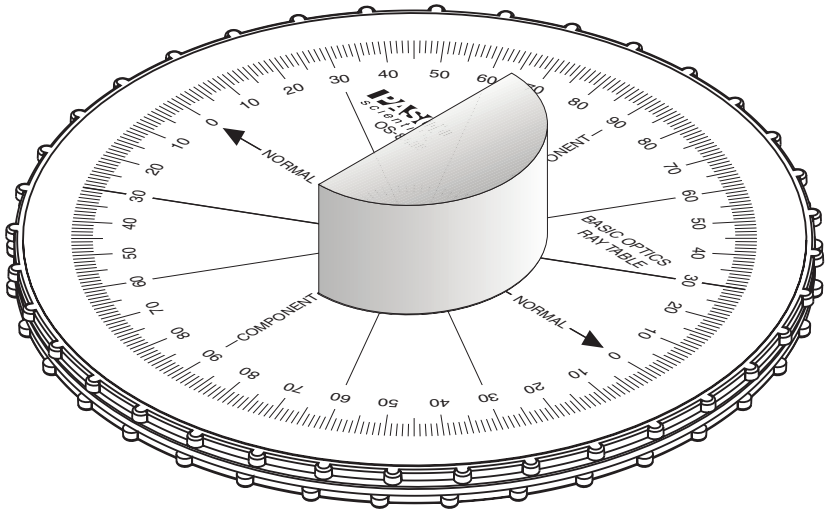
Ray Table

OS-8465



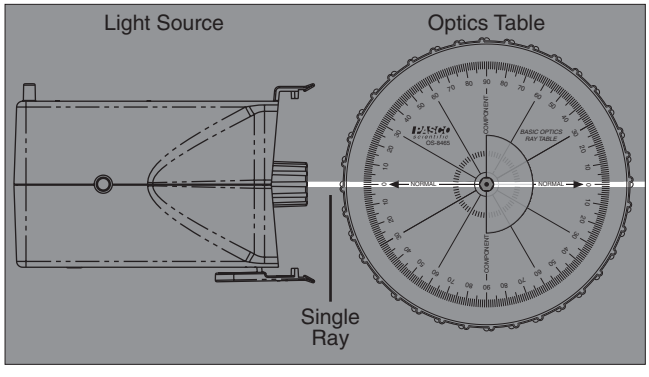
Included Equipment	Part Number
Ray Table	OS-8465
D-shaped Lens	OS-8492
Required Equipment	
Basic Optics Light Source	OS-8470 *or similar*

Introduction

The Ray Table is designed for use with the included D-shaped lens (and other components) to measure angles of incidence, refraction, and reflection. To change these angles, you can rotate the upper half of the ray table while non-skid feet keep the base firmly in place. Pencil marks are easily erased from the table's white surface, so you can mark angles and trace rays directly on it.

Equipment Setup

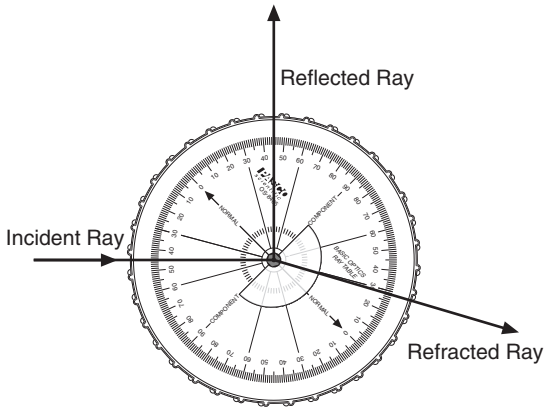
Set up a light source or ray box to project a single ray. Place the light source and the ray table close together on a lab bench or other flat surface. Position the light source so that the ray crosses the center of the ray table; rotate the ray table to place one of the 0° marks on the incident ray.

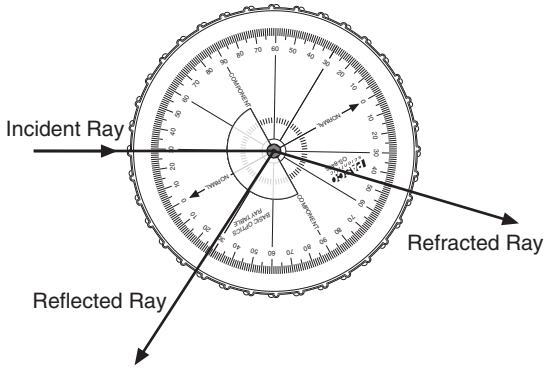


Place the D-shaped lens over the lens outline on the ray table. Note that the flat surface of the lens is aligned with the "Com-

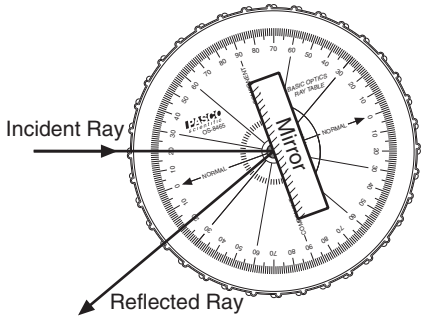
ponent" line on the table, and the lens's curved surface is concentric with the table.

Rotate the table to change the angle of incidence and observe how the angles of the refracted and reflected rays change. If you look down through the lens, you can see that the rays are refracted only at the flat surface, not at the curved surface.





To use the ray table with a plane mirror, position the reflective surface of the mirror over table's "Component" line.



Specifications

Diameter	15 cm
Angular Resolution	1°

Technical Support

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: 916-786-3800 (worldwide)
800-772-8700 (U.S.)

Fax: (916) 786-7565

Web: www.pasco.com

Email: support@pasco.com

Limited Warranty
For a description of the product warranty, see the PASCO catalog.

Copyright
The PASCO scientific 012-09531C *Ray Table Instruction Sheet* is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited.

Trademarks
PASCO and PASCO scientific are trademarks or registered trademarks of PASCO scientific, in the United States and/or in other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of, their respective owners. For more information visit www.pasco.com/legal.