

Lab Format

Name(s):

Due Date:

Title: Experiment 34 - Speed of Light in "Glass"

Problem: How can the speed of light in "glass" be determined?

Apparatus: rectangular glass block, paper, 2 pins, ruler, protractor, cardboard

Procedure: Refer to Page 512 in the old red lab manual.

(7)

Gathering the Data:

Draw, label and submit diagrams for angles of incidence from 0° to 60° .

Complete Table 34-1. (14)

Solving the Problem:

Graph the sines of the angles of incidence versus the sines of the angles of refraction as directed in the lab handout. (4)

Determine the index of refraction of the "glass". Show your work. (2)

Calculate the speed of light in the "glass". Show your work. (2)

