

CBHS Hon Astronomy Individual Project #2 Diameter of the Sun

Build a device as described in class, or visit this website for more info:

http://cse.ssl.berkeley.edu/AtHomeAstronomy/activity_03.html

Make measurements in millimeters or centimeters, if you want; but, all measurements should be converted to meters. Attach the paper with your image to this worksheet.

Record your values below, including units:

Device to Image Distance	
Diameter of Image	
Device to Sun Distance	

- 1) Who was your partner?
- 2) Use a proportion to find the diameter of the Sun. Show your work. Circle your answer.

- 3) The actual diameter is 1.39×10^9 m. Use this value to find the percent error.

- 4) What were the biggest sources of error in this experiment, and how would you correct them?

Due Date: Monday, October 20, 2014