| | Physics in the Universe Lab Handout 04 "Bull's Eye" | | |
|---|---|--|--------------------|
| Your Name: | | Lab Partner(s): | |
| Purpose: | | mentally verify the start ball should be released. | |
| Materials: steel 30 cm | . ball | meter stick ramp ring stand | metal pan clamp |
| Procedure: 1. (Keep track of the exact steps you decide to follow and type your procedure in a shared Google Doc such that another student would be able to follow your directions. Print your Google Doc and staple to this page.) | | | |
| Observations: | | | |
| Data: | | | |
| Height of | lab table: | m | |
| Time to fall height of lab table: s Δy = ½ a t ² Distance from edge of lab table to center of target: m | | | |
| Speed required to go horizontal distance from edge of lab table | | | |
| to target: m/s $d_x = s_x \cdot t$ | | | |
| | | | |
| Height (H) on meter stick ramp to reach that speed: m | | | |
| Equation f | | down a ramp: √1.43gH marble) | |

Photographs:

(In this section import a picture or two of your experimental set-up.)

Error Analysis:

(In this section type what kept the lab's results from being perfect.)

Conclusion:

(In this section you should include, 1) the physics principals investigated in this lab, 2) what did you learn in this lab experience, and 3) what could have been done to improve this lab.)