

Name: _____

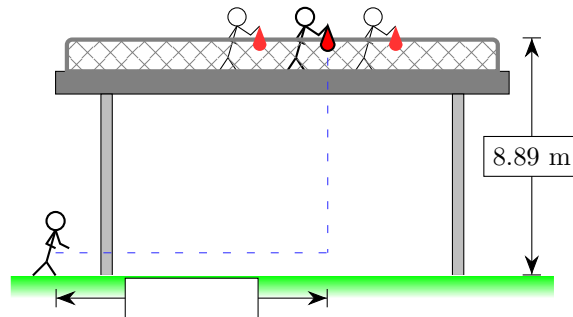
Date: _____

Period: _____

Water Balloon Challenge

Purpose: The purpose of this lab is to hit Mr. Rohrbach with a water balloon. Mr. Rohrbach will be walking at a steady pace below the bleachers. One of your team members (the “dropper”) will be standing at the top of the bleachers _____ meters away from his horizontal starting location. Using your kinematics knowledge, you will need to calculate at what time you should drop the balloon in order to hit Mr. Rohrbach as he walks by. The bleachers are 8.89 meters tall.

Diagram: Add the velocity and acceleration vectors to this diagram, indicate your positive and negative directions, and include any other helpful labels.



Calculation: Show all your calculations below. Make sure to label each calculation with what it is that you are looking for. Include knowns and unknowns and show all work.

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Explanation: In paragraph form, explain the steps you took to complete the calculation. Be complete and detailed.

Results: In paragraph form, comment on how successful you were. Discuss any errors that came up in the lab and what you could do in the future to correct them.

Grading Rubric:

<input type="radio"/> 10:	Calculations are complete, correct, & easy to follow.	<input type="radio"/> 7:	Calculations are difficult to follow or have errors.	<input type="radio"/> 5:	Calculations are incomplete or incorrect.
<input type="radio"/> 5:	Explanations & Results are thorough & complete.	<input type="radio"/> 3:	Explanations & Results are not detailed enough.	<input type="radio"/> 1:	Explanations & Results are incomplete.

Total Score: _____/15