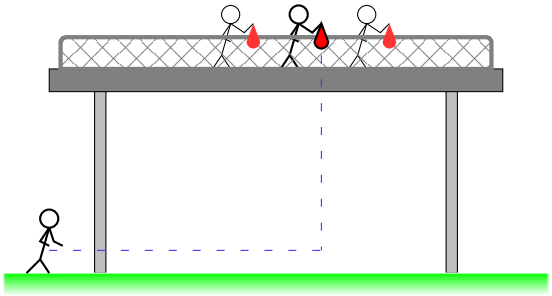
Name: Date: Period:

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.

Diagram: Make sure to draw a coordinate system (or systems) and include any other helpful information.



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

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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:

◯ **10:**	Calculations are complete, correct, & well explained.	◯ **7:**	Calculations exist, but are not well explained.	◯ **5:**	Calculations are incomplete or incorrect.
◯ **5:**	Results discussion is thorough & complete.	◯ **3:**	Results discussion lacks detail.	◯ **1:**	Results discussion is incomplete.

Total Score: _____/15