

# Ms. Glynn 8<sup>th</sup> Grade Science

Name: \_\_\_\_\_

- 1) For your first and last trial runs, what were the actual distances that the balls traveled?
- 2) For your first and last trial run, what were the times it took for the balls to hit the ground?
- 3) Calculate the velocity of the ball of both your first trial run and your last trial run.
- 4) Calculate the acceleration of the ball based on your calculations above.
- 5) Assuming that all the balls had an equal mass of 20 kg, what was the amount of force exerted on the ball?

6) Which graph accurately represents the ball's speed? Explain why to the right of your selected answer.



