Name: _____   Date: _____

Section 5.6 Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • Calculates the ball's maximum height and the horizontal distance travelled before it lands.	Demonstrates limited understanding of quadratic relations and has major numerical errors in solution.	Demonstrates some understanding of quadratic relations and has minor numerical errors in solution.	Demonstrates considerable understanding of quadratic relations and has no numerical errors in solution.	Demonstrates thorough understanding of quadratic relations and has no numerical errors in solution.
Thinking • Prepares a plan to solve the problem. • Carries out the plan.	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
Communication • Clear explanations and full justifications. • Correct use of mathematical language.	Does not clearly explain or justify solution.	Explains and justifies solution somewhat.	Explains and justifies solution fully.	Explains, justifies and shows insight into the complexities of the solution.
Application • Expresses the relation in standard form and in intercept form. • Determines if the ball will clear the crossbar.	Interprets the information ineffectively and has difficulty expressing the relation in standard and intercept forms and determining if the ball clears the crossbar.	Interprets the information somewhat effectively and has some difficulty expressing the relation in standard and intercept forms and determining if the ball clears the crossbar.	Interprets the information with considerable effectiveness and has little difficulty expressing the relation in standard and intercept forms and determining if the ball clears the crossbar.	Interprets the information with a high degree of effectiveness and has no difficulty expressing the relation in standard and intercept forms and determining if the ball clears the crossbar.