

Section 4.4 Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of the features of the graph $y = a(x - h)^2 + k$, how to construct the graph, and how to determine its equation 	<ul style="list-style-type: none"> demonstrates some knowledge of the features of the graph $y = a(x - h)^2 + k$, how to construct the graph, and how to determine its equation 	<ul style="list-style-type: none"> demonstrates considerable knowledge of the features of the graph $y = a(x - h)^2 + k$, how to construct the graph, and how to determine its equation 	<ul style="list-style-type: none"> demonstrates thorough knowledge of the features of the graph $y = a(x - h)^2 + k$, how to construct the graph, and how to determine its equation
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of inference in analysing the shape of the graph) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness (e.g., some evidence of inference in analysing the shape of the graph) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of inference in analysing the shape of the graph) 	<ul style="list-style-type: none"> uses planning and critical thinking processes very effectively (e.g., detailed evidence of inference in analysing the shape of the graph)
Communication	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with limited effectiveness uses mathematical vocabulary and notation with limited effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with some effectiveness uses mathematical vocabulary and notation with some effectiveness 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with considerable effectiveness uses mathematical vocabulary and notation with considerable effectiveness (e.g., uses good form for presenting answers and describing the path of the rocket) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with a high degree of effectiveness uses mathematical vocabulary and notation with a high degree of effectiveness (e.g., uses very good form for presenting answers and describing the path of the rocket)
Application	<ul style="list-style-type: none"> applies knowledge to this context with limited effectiveness (e.g., applies steps to determine the equation of the rocket's path with limited effectiveness) 	<ul style="list-style-type: none"> applies knowledge to this context with some effectiveness (e.g., applies steps to determine the equation of the rocket's path with some effectiveness) 	<ul style="list-style-type: none"> applies knowledge to this context with considerable effectiveness (e.g., applies steps to determine the equation of the rocket's path with considerable effectiveness and provides mathematical support) 	<ul style="list-style-type: none"> applies knowledge to this context with a high degree of effectiveness (e.g., applies appropriate steps to determine the equation of the rocket's path and provides detailed mathematical support)