Name: _____   Date: _____

Task: York Leisure Centre Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	• demonstrates limited knowledge of a) the basic properties of quadratic relations and their graphs and of b) techniques for solving quadratic equations	• demonstrates some knowledge of a) the basic properties of quadratic relations and their graphs and of b) techniques for solving quadratic equations	• demonstrates considerable knowledge of a) the basic properties of quadratic relations and their graphs and of b) techniques for solving quadratic equations	• demonstrates thorough knowledge of a) the basic properties of quadratic relations and their graphs and of b) techniques for solving quadratic equations
Thinking	• uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of inference in solving and interpreting the equations in parts c) and d))	• uses planning and critical thinking processes with some effectiveness (e.g., some evidence of inference in solving and interpreting the equations in parts c) and d))	• uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of inference in solving and interpreting the equations in parts c) and d))	• uses planning and critical thinking processes very effectively (e.g., detailed evidence of inference in solving and interpreting the equations in parts c) and d))
Communication	• expresses and organizes mathematical thinking with limited effectiveness • uses mathematical vocabulary and notation with limited effectiveness	• expresses and organizes mathematical thinking with some effectiveness • uses mathematical vocabulary and notation with some effectiveness	• expresses and organizes mathematical thinking with considerable effectiveness • uses mathematical vocabulary and notation with considerable effectiveness (e.g., uses good form for presenting graphs and solving/analysing equations)	• 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 graphs and solving/analysing equations)
Application	• applies knowledge to this context with limited effectiveness (e.g., applies steps to solve the quadratic equations and find the coordinates of the vertex and the equation of the line of symmetry with limited effectiveness)	• applies knowledge to this context with some effectiveness (e.g., applies steps to solve the quadratic equations and find the coordinates of the vertex and the equation of the line of symmetry with some effectiveness)	• applies knowledge to this context with considerable effectiveness (e.g., applies steps to solve the quadratic equations and find the coordinates of the vertex and the equation of the line of symmetry with considerable effectiveness)	• applies knowledge to this context with a high degree of effectiveness (e.g., applies steps to solve the quadratic equations and find the coordinates of the vertex and the equation of the line of symmetry with a high degree of effectiveness)