

Name: _____

Date: _____

Chapter 2 Task: Functions in Design Rubric**BLM 2-16**

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Understands how to graph transformed functions for a given domain 	<ul style="list-style-type: none"> Demonstrates limited understanding of how to graph transformed reciprocal and square root functions for a given domain 	<ul style="list-style-type: none"> Demonstrates some understanding of how to graph transformed reciprocal and square root functions for a given domain 	<ul style="list-style-type: none"> Demonstrates considerable understanding of how to graph transformed reciprocal and square root functions for a given domain 	<ul style="list-style-type: none"> Demonstrates thorough understanding of how to graph transformed reciprocal and square root functions for a given domain
Thinking <ul style="list-style-type: none"> Prepares a plan to solve the problem Carries out the plan 	<ul style="list-style-type: none"> Needs extensive assistance to begin organizing a plan and needs some steps to follow 	<ul style="list-style-type: none"> Needs some assistance to organize and implement an effective strategy 	<ul style="list-style-type: none"> Needs minimal assistance to organize and implement an effective strategy 	<ul style="list-style-type: none"> Needs no assistance to organize and implement an effective strategy
Communication <ul style="list-style-type: none"> Clear explanations and justifications Correct use of mathematical language Clearly labelled graphs 	<ul style="list-style-type: none"> Does not clearly explain or justify solution Uses limited mathematical form Uses limited labelling on graphs 	<ul style="list-style-type: none"> Explains or justifies the solution somewhat Uses minimal mathematical form Uses some labelling on graphs 	<ul style="list-style-type: none"> Explains or justifies the solution fully Uses good mathematical form Graphs are well labelled 	<ul style="list-style-type: none"> Explains, justifies, and shows insight into the complexities of the solution Uses excellent mathematical form Graphs are fully and clearly labelled
Application <ul style="list-style-type: none"> Recognizes and explains the significance of $x = 2$ Creates a new design based on transformed functions with a restricted domain 	<ul style="list-style-type: none"> Is ineffective in recognizing and explaining the significance of $x = 2$ Creates a simple design based on a single transformed function with a restricted domain 	<ul style="list-style-type: none"> Is somewhat effective in recognizing and explaining the significance of $x = 2$ Creates a design based on two transformed functions with restricted domains 	<ul style="list-style-type: none"> Is fairly effective in recognizing and explaining the significance of $x = 2$ Creates a design based on three transformed functions with restricted domains 	<ul style="list-style-type: none"> Is very effective in recognizing and explaining the significance of $x = 2$ Creates a design based on four or more transformed functions with restricted domains

