

Name: _____

Date: _____

Section 3.5 Achievement Check Rubric**BLM 3–7**

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Write the equation in terms of base 3 Identify the required transformations Identify the domain, range, equation of asymptote, and intercepts of the transformed function Graph is accurate 	<ul style="list-style-type: none"> Demonstrates limited understanding of how to determine the transformed function Demonstrates limited understanding of how to determine the domain, range, asymptotes and inverse of the transformed function Graph conveys limited accuracy 	<ul style="list-style-type: none"> Demonstrates some understanding of how to determine the transformed function Demonstrates some understanding of how to determine the domain, range, asymptotes and inverse of the transformed function Graph is somewhat accurate 	<ul style="list-style-type: none"> Demonstrates considerable understanding of how to determine the transformed function Demonstrates considerable understanding of how to determine the domain, range, asymptotes and inverse of the transformed function Graph conveys considerable accuracy 	<ul style="list-style-type: none"> Demonstrates thorough understanding of how to determine the transformed function Demonstrates thorough understanding of how to determine the domain, range, asymptotes and inverse of the transformed function Graph conveys a high degree of accuracy
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 graph 	<ul style="list-style-type: none"> Does not clearly explain or justify solution Uses limited mathematical form Uses limited labelling on graph 	<ul style="list-style-type: none"> Explains or justifies the solution somewhat Uses minimal mathematical form Uses minimal labelling on graph 	<ul style="list-style-type: none"> Explains or justifies the solution fully Uses good mathematical form Graph is well-labelled 	<ul style="list-style-type: none"> Explains, justifies and shows insight into the complexities of the solution Uses excellent mathematical form Graph is fully and clearly labelled
Application <ul style="list-style-type: none"> Connects between the transformed equation and the key characteristics of the graph 	<ul style="list-style-type: none"> Has limited understanding of the connection between the transformed equation and the characteristics of the graph 	<ul style="list-style-type: none"> Has some understanding of the connection between the transformed equation and the characteristics of the graph 	<ul style="list-style-type: none"> Has considerable understanding of the connection between the transformed equation and the characteristics of the graph 	<ul style="list-style-type: none"> Has thorough understanding of the connection between the transformed equation and the characteristics of the graph

