Name: _____   Date: _____

Task: Make Your Own Slide Rule Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • completes the table of values • creates the simple slide rule • adds new scale between numbers	• demonstrates limited understanding of logarithms needing extensive assistance to complete the table and create the slide rule	• demonstrates some understanding of logarithms needing some assistance to complete the table and create the slide rule	• demonstrates considerable understanding of logarithms needing minimal assistance to complete the table and create the slide rule	• demonstrates thorough understanding of logarithms needing no assistance to complete the table and create an accurate slide rule
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 • correctly uses mathematical language • clearly explains and fully justifies solution	• maintains the correct language in some of the solution • does not clearly explain or justify solution	• maintains the correct language throughout most of the solution • explains and justifies solution somewhat	• maintains the correct language throughout the solution • explains and justifies solution fully	• maintains the correct language throughout the solution • explains, justifies and shows insight into the complexities of the solution
Application • uses the slide rule as indicated and identifies the operation • provides examples of multiplication and division • researches the use of a slide rule for square roots or cube roots	• interprets the information ineffectually, by using the slide rule poorly, providing few simple examples and researching inadequately with only a sketchy explanation	• interprets the information somewhat effectually, by using the slide rule correctly a few times, providing a few simple examples and researching with only a partial explanation	• interprets the information with considerable effectiveness, by using the slide rule, providing simple, well explained examples and researching with an explanation	• interprets the information with a high degree of effectiveness, by using the slide rule efficiently, providing a few complex, well explained examples and researching thoroughly with a complete explanation