

Section 4.6 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 $y = 2^x$ and how to construct a table and scatter plot 	<ul style="list-style-type: none"> demonstrates some knowledge of the features of the graph $y = 2^x$ and how to construct a table and scatter plot 	<ul style="list-style-type: none"> demonstrates considerable knowledge of the features of the graph $y = 2^x$ and how to construct a table and scatter plot 	<ul style="list-style-type: none"> demonstrates thorough knowledge of the features of the graph $y = 2^x$ and how to construct a table and scatter plot
Thinking	<ul style="list-style-type: none"> uses planning and critical thinking processes with limited effectiveness (e.g., little evidence of inference in using given information to relate $y = 2^x$ to the mitosis relation) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with some effectiveness (e.g., some evidence of inference in using given information to relate $y = 2^x$ to the mitosis relation) 	<ul style="list-style-type: none"> uses planning and critical thinking processes with considerable effectiveness (e.g., considerable evidence of inference in using given information to relate $y = 2^x$ to the mitosis relation) 	<ul style="list-style-type: none"> uses planning and critical thinking processes very effectively (e.g., detailed evidence of inference in using given information to relate $y = 2^x$ to the mitosis relation)
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 scatter plots, tables, and developing/describing relationships and relations) 	<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 scatter plots, tables, and developing/describing relationships and relations)
Application	<ul style="list-style-type: none"> applies knowledge to this context with limited effectiveness (e.g., applies steps to find the equation of the relation and extrapolates from the graph/table with limited effectiveness) 	<ul style="list-style-type: none"> applies knowledge to this context with some effectiveness (e.g., applies steps to find the equation of the relation and extrapolates from the graph/table with some effectiveness) 	<ul style="list-style-type: none"> applies knowledge to this context with considerable effectiveness (e.g., applies steps to find the equation of the relation correctly; extrapolates from the graph/table and provides some mathematical support) 	<ul style="list-style-type: none"> applies knowledge to this context with a high degree of effectiveness (e.g., applies steps to find the equation of the relation correctly; extrapolates accurately from the graph/table and provides detailed mathematical support)