

Scoring Rubric – Modeling Population Data

| | Exemplary (10) | Proficient (8.5) | Developing (7) | Emerging (6) |
|--|--|---|--|--|
| <p>Knowledge/Understanding</p> <p>Key Question: <i>Are the mathematics of the solution completed and presented in an accurate manner?</i></p> <p>Key Question: <i>Is evidence of an understanding of the mathematics & the context present in the work?</i></p> | <ul style="list-style-type: none"> • All aspects of your solution were complete, accurate, and consistent • Your solution was entirely accurate and correctly supported by algebraic evidence • All of your work, discussion and mathematical representations were consistent with one another and relevant to the task | <ul style="list-style-type: none"> • All aspects of your solution were complete and consistent • Your solution was essentially accurate and correctly supported by algebraic evidence • Most of your work, discussion and mathematical representations were consistent with one another and relevant to the task | <ul style="list-style-type: none"> • Some aspects of your solution were inconsistent, incomplete, or incorrect • The evidence for your solution was inconsistent or unclear • There were some inconsistencies and errors in your work, discussion and mathematical representations | <ul style="list-style-type: none"> • Many aspects of your solution were inconsistent, incomplete, or incorrect • You gave no evidence of how you arrived at your solution • There were significant inconsistencies and errors in your work, discussion and mathematical representations |
| <p>Thinking/Problem Solving</p> <p>Key Question: <i>Did the student use critical thinking and analytical skills?</i></p> <p>Key Question: <i>Did the student plan and carry out an effective strategy for solving the problem?</i></p> | <ul style="list-style-type: none"> • Your approach to the task was insightful and independently developed • You carried out your plan for confirming that your solution was correct • You provided relevant, logical discussion about the reasonableness of your solution • You noted possible sources of error or ambiguity or limitations in the problem | <ul style="list-style-type: none"> • Your approach to the task was appropriate and independently developed • You outlined a plan that could be used to confirm that your solution was correct • You discussed the reasonableness of your solution, though your discussion may have lapses in relevance or logic | <ul style="list-style-type: none"> • You developed & used an oversimplified approach to the task <u>or</u> your plan was developed with some teacher guidance • You attempted to confirm that your solution was correct • You attempted to discuss the reasonableness of your solution, though your discussion may have large gaps in relevance or leaps in your logic that are hard to follow | <ul style="list-style-type: none"> • Your strategies were not appropriate for the task <u>or</u> your plan was developed with significant teacher guidance • You did not attempt to confirm that your solution was correct • You provided little discussion about the reasonableness of your solution, or your discussion was not logical or relevant • Your reasoning and your work were inconsistent |
| <p>Communication</p> <p>Key Question: <i>Did the student clearly, concisely, and completely convey meaning through various forms?</i></p> <p>Key Question: <i>Are the mathematics organized and presented in an accurate and complete manner?</i></p> | <ul style="list-style-type: none"> • All explanations and mathematical representations were clear, concise and complete • The entire solution is organized & presented in a clear, concise and complete manner | <ul style="list-style-type: none"> • Most explanations and mathematical representations were clear, concise and complete • Most of the solution is organized & presented in a clear, concise and complete manner | <ul style="list-style-type: none"> • Some explanations and mathematical representations were clear, concise and complete • At times, the solution is organized & presented in a clear, concise and complete manner | <ul style="list-style-type: none"> • Your explanations and mathematical representations were often unclear, incomplete or redundant • Rarely is the solution is organized & presented in a clear, concise and complete manner |

Name: _____

Knowledge: /10

Thinking: /10

Communication: /10

Total Score: /30