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| **LG #** | **A213** | **Standards:** | **S-IC.1.1, S-IC.2.3, S-IC.2.6** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.**  **The student will be able to:**   * Design an unbiased method to collect data. * Analyze and critique the data collection process, including flaws and biases, from published performed experiments, observational studies, and surveys.   **No major errors or omissions regarding the score 4.0 content.** | | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | | |
| **3.0** | **Students will be able to use surveys, experiments, and observational studies to collect data.**  **The student will be able to:**   * Understand statistics as a process for making inferences about population parameters based on a random sample from that population. (S-IC.1.1) * Recognize the differences among sample surveys, experiments, and observational studies. (S-IC.2.3) * Explain how randomization relates to sample surveys, experiments, and observational studies. (S-IC.2.3) * Evaluate reports based on data. (S-IC.2.6)   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | | |
| **2.0** | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Population | * Census | * Observational Study | | * Parameter | * Survey | * Controlled Experiment | | * Sample | * Sampling Methods | * Bias | | * Statistic * Control Group * Randomization * Correlation(Association) | * Cluster Grouping * Treatment Group * Random sample * Causation | * Lurking Variable * Blind Study * Double Blind Study |   **The student will be able to:**   * Recognize the purpose of sample surveys. (S-IC.2.3) * Recognize the purpose of experiments. (S-IC.2.3) * Recognize the purpose of observational studies. (S-IC.2.3) | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.0** | Even with help, no understanding or skill is demonstrated | | |