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| **LG #** | **A114** | **Standards: S-ID.3.7, S-ID.3.8, S-ID.3.9** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that goes beyond instruction to the standard.****The student will be able to:*** Collect two quantitative variables and analyze the type of association graphically using a scatter plot. If linear, identify the correlation coefficient and interpret in context of the real world situation.

 **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 interpret linear models using linear regression in real-world context****The student will be able to:*** [Interpret the slope (rate of change) of a linear model in the context of the data.](http://www.cpalms.org/Public/PreviewResource/Preview/56722) ([S-ID.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/56723))
* [Interpret the intercept (constant term) of a linear model in the context of the data.](http://www.cpalms.org/Public/PreviewResource/Preview/56724) ([S-ID.3.7](http://www.cpalms.org/Public/PreviewResource/Preview/60545))
* [Interpret the correlation coefficient of a linear fit.](http://www.cpalms.org/Public/PreviewResource/Preview/69123) ([S-ID.3.8](http://www.cpalms.org/Public/PreviewResource/Preview/69134))

**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** |

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| **The student recognizes and describes specific terminology such as:**

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| * Correlation
 | * Linear Association
 | * Correlation Coefficient
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| * Causation
 | * Linear Regression
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**The student will be able to:*** [Compute (using technology) the correlation coefficient of a linear fit. (S-ID.3.8)](http://www.cpalms.org/Public/PreviewResource/Preview/69164)
* [Distinguish between correlation and causation.](http://www.cpalms.org/Public/PreviewResource/Preview/70670) ([S-ID.3.9](http://www.cpalms.org/Public/PreviewResource/Preview/70672))
* [Understand that correlation or a strong linear association does NOT imply causation.](http://www.cpalms.org/Public/PreviewResource/Preview/70673) ([S-ID.3.9](http://www.cpalms.org/Public/PreviewResource/Preview/70675))
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| **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 |