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| **LG #** | **A109** | **Standards:** | **F-IF.2.4, F-IF.2.5, F-IF.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:**   * Assemble real world data, create an appropriate function to represent the data, and interpret the parameters in context.   **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 functions that arise in applications in terms of the context.**  **The student will be able to:**   * [Interpret in context, the key features of a given function.](http://www.cpalms.org/Public/PreviewResource/Preview/56659) ([F-IF.2.4](http://www.cpalms.org/Public/PreviewResource/Preview/59140)) | | | | | |
| * + Linear   + Quadratic   + Exponential | | | | * + Piecewise   + Absolute Value   + Square and Cube Root | |
| * [Sketch the graph](http://www.cpalms.org/Public/PreviewResource/Preview/56526) of a given function showing key features given a verbal description of the relationship. ([F-IF.2.4](http://www.cpalms.org/Public/PreviewResource/Preview/56658)) | | | | | |
| * + Linear   + Quadratic   + Exponential | | | * + Piecewise   + Absolute Value   + Square and Cube Root | | |
| * [Interpret slope of linear functions in real world context. (F-IF.2.6)](http://www.cpalms.org/Public/PreviewResource/Preview/56663)   **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:**   |  |  |  | | --- | --- | --- | | * Axis of Symmetry | * Intervals | * Maximum | | * Minimum | * Rate of Change | * Slope | | * Vertex | * Domain (Input) | * Range (Output) | |  |  |  |   **The student will be able to:**   * Identify the key features of a function (F-IF.2.4) | | | | | |
| * + Intercepts   + Symmetries   + End behavior | | | | | * + Relative maximums and minimums   + Intervals where the function is increasing, decreasing, positive or negative |
| * [Relate the domain of a function to its graph](http://www.cpalms.org/Public/PreviewResource/Preview/60573) and, where applicable, to the quantitative relationship it describes. ([F-IF.2.5](http://www.cpalms.org/Public/PreviewResource/Preview/60618)) * [Estimate the rate of change of a function from its graph. (F-IF.2.6)](http://www.cpalms.org/Public/PreviewResource/Preview/56665) * [Calculate the rate of change (slope) of a linear function from a graph or table over a specified interval.](http://www.cpalms.org/Public/PreviewResource/Preview/56664) ([F-IF.2.6](http://www.cpalms.org/Public/PreviewResource/Preview/59109)) | | | | | |
| **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 | | | | | |