

Linear and Exponential Functions

Dear family,

Below is an analysis of [REDACTED] performance on a recent Algebra II test. In this particular test, seven overarching standards were assessed (some attached to the NYS Common Core Learning Standards), all of which directly relate to linear or exponential functions, or functions as a whole.

In the chart below, the first column represents the NYS CCLS code for the standard in question, followed by a description of the standard. From there, you will see the number of credits your student earned, the possible credits on the test, and the earned credits as a percentage of the possible credits.

Please note that there will be no "reinforcement sessions" for this assessment, since most standards will be reinforced at other sessions.

If you have any questions about this, or anything else, please feel free to email me at RHohn@MamkSchools.org.

Sincerely,
 Robert Hohn

| Code | Standard Description | Earned Credits | Possible Credits | Percentage of Possible |
|-------------------------|---|-----------------------|----------------------------|-------------------------------|
| A-REI.6 | <i>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</i> | 2 | 2 | 100% |
| A-SSE.3 | Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | 2 | 2 | 100% |
| F-BF.1 | Write a function that describes a relationship between two quantities. | 4 | 4 | 100% |
| F-BF.4 | Find inverse functions. | 4 | 4 | 100% |
| F-IF.1 | Understand that a function from the domain to the range assigns to each element of the domain exactly one element of the range. | 0 | 2 | 100% |
| F-IF.6 | <i>Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.</i> | 2 | 2 | 100% |
| F-IF.7 | <i>Graph square root, cube root, and piecewise-defined functions.</i> | 7 | 8 | 88% |
| F-IF.8 | Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. | 3 | 4 | 75% |
| F-LE.2 | Construct linear and exponential function given a graph, a description of a relationship, or two input-output pairs. | 1 | 2 | 50% |
| N-RN.1 | Convert rational exponents to roots and vice-versa. | 0.5 | 2 | 25% |
| Final Test Score | | 25.5 | 29 (scaled, 32 raw) | 87.93% |

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| A-REI.6 | <i>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</i> | 2 | 2 | 100% |
| A-SSE.3 | Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | 2 | 2 | 100% |
| F-BF.1 | Write a function that describes a relationship between two quantities. | 3 | 4 | 75% |
| F-BF.4 | Find inverse functions. | 4 | 4 | 100% |
| F-IF.1 | Understand that a function from the domain to the range assigns to each element of the domain exactly one element of the range. | 0 | 2 | 75% |
| F-IF.6 | <i>Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.</i> | 2 | 2 | 100% |
| F-IF.7 | <i>Graph square root, cube root, and piecewise-defined functions.</i> | 6 | 8 | 75% |
| F-IF.8 | Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. | 3 | 4 | 75% |
| F-LE.2 | Construct linear and exponential function given a graph, a description of a relationship, or two input-output pairs. | 1 | 2 | 50% |
| N-RN.1 | Convert rational exponents to roots and vice-versa. | Exempt | Exempt (2) | Exempt |
| Final Test Score | | 23 (24.5 scaled) | 27 (29 scaled, 32 raw) | 84.48% |

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|-------------------------|---|---------------------|----------------------------|------------------------|
| A-REI.6 | <i>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</i> | 2 | 2 | 100% |
| A-SSE.3 | Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | 2 | 2 | 100% |
| F-BF.1 | Write a function that describes a relationship between two quantities. | 4 | 4 | 100% |
| F-BF.4 | Find inverse functions. | 3 | 4 | 75% |
| F-IF.1 | Understand that a function from the domain to the range assigns to each element of the domain exactly one element of the range. | 0 | 2 | 100% |
| F-IF.6 | <i>Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.</i> | 2 | 2 | 100% |
| F-IF.7 | <i>Graph square root, cube root, and piecewise-defined functions.</i> | 7 | 8 | 88% |
| F-IF.8 | Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. | 0 | 4 | 0% |
| F-LE.2 | Construct linear and exponential function given a graph, a description of a relationship, or two input-output pairs. | 0 | 2 | 0% |
| N-RN.1 | Convert rational exponents to roots and vice-versa. | 1 | 2 | 50% |
| Final Test Score | | 21 + 2 Bonus | 29 (scaled, 32 raw) | 79.31% |

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|-------------------------|---|-----------------------|----------------------------|-------------------------------|
| A-REI.6 | <i>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</i> | 2 | 2 | 100% |
| A-SSE.3 | Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | 2 | 2 | 100% |
| F-BF.1 | Write a function that describes a relationship between two quantities. | 1 | 4 | 25% |
| F-BF.4 | Find inverse functions. | 4 | 4 | 100% |
| F-IF.1 | Understand that a function from the domain to the range assigns to each element of the domain exactly one element of the range. | 2 | 2 | 25% |
| F-IF.6 | <i>Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.</i> | 2 | 2 | 100% |
| F-IF.7 | <i>Graph square root, cube root, and piecewise-defined functions.</i> | 4.5 | 8 | 56% |
| F-IF.8 | Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. | 0 | 4 | 0% |
| F-LE.2 | Construct linear and exponential function given a graph, a description of a relationship, or two input-output pairs. | 0 | 2 | 0% |
| N-RN.1 | Convert rational exponents to roots and vice-versa. | 0 | 2 | 0% |
| Final Test Score | | 17.5 | 29 (scaled, 32 raw) | 60.34% |

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|-------------------------|---|-----------------------|----------------------------|-------------------------------|
| A-REI.6 | <i>Solve systems of linear equations exactly and approximately (e.g., with graphs), focusing on pairs of linear equations in two variables.</i> | 2 | 2 | 100% |
| A-SSE.3 | Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. | 2 | 2 | 100% |
| F-BF.1 | Write a function that describes a relationship between two quantities. | 2.5 | 4 | 63% |
| F-BF.4 | Find inverse functions. | 0 | 4 | 0% |
| F-IF.1 | Understand that a function from the domain to the range assigns to each element of the domain exactly one element of the range. | 0 | 2 | 63% |
| F-IF.6 | <i>Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval.</i> | 0 | 2 | 0% |
| F-IF.7 | <i>Graph square root, cube root, and piecewise-defined functions.</i> | 2 | 8 | 25% |
| F-IF.8 | Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. | 3 | 4 | 75% |
| F-LE.2 | Construct linear and exponential function given a graph, a description of a relationship, or two input-output pairs. | 0 | 2 | 0% |
| N-RN.1 | Convert rational exponents to roots and vice-versa. | 0.5 | 2 | 25% |
| Final Test Score | | 12 | 29 (scaled, 32 raw) | 41.38% |