State of Texas Assessments of Academic Readiness (STAAR®)
Performance Level Descriptors
Algebra I

<table>
<thead>
<tr>
<th>Performance Level Descriptors</th>
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<tbody>
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<td>The mathematical process skills describe ways in which students are expected to engage in the content. They are not assessed in isolation but are incorporated into questions that assess Algebra I content. The process skills focus on applying mathematics to solve problems, analyze mathematical relationships, and communicate mathematical ideas.</td>
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### Students achieving Level III: Advanced Academic Performance can

- Evaluate the reasonableness of the domain and range of linear functions
- Generate representations of exponential functions
- Make predictions from exponential functions that provide a reasonable fit to data for real-world problems

### Students achieving Level II: Satisfactory Academic Performance can

- Factor polynomial expressions
- Determine the domain and range of linear, quadratic, and exponential functions
- Calculate the rate of change of linear functions in mathematical and real-world problems
- Determine solutions to linear and quadratic equations, linear inequalities, and systems of linear equations in mathematical and real-world problems
- Formulate linear and quadratic equations, linear inequalities, and systems of linear equations to solve problems
- Generate representations of linear and quadratic functions and linear inequalities
- Analyze the effects of parameter changes on the graph of linear and quadratic parent functions
- Estimate solutions and make predictions from linear and quadratic functions that provide a reasonable fit to data for real-world problems
- Identify attributes of an exponential function from its graph

### Students achieving Level I: Unsatisfactory Academic Performance can

- Identify slopes and $y$-intercepts of linear functions from tables, graphs, and equations given in slope-intercept form
- Simplify algebraic expressions and solve linear equations
- Identify solutions to systems of equations and inequalities from a graph
- Identify attributes of a linear or quadratic function from its graph