

Oklahoma School Testing Program
Core Curriculum Tests
Performance-Level Descriptors
End-of-Instruction ACE Algebra I

Advanced: Students demonstrate a superior performance of the challenging subject matter knowledge and skills of the measured objectives included in the Algebra I Oklahoma C³ framework. Students performing at the Advanced performance level can thoroughly demonstrate understanding of number sense and algebraic operations; relations and functions; and data analysis, probability, and statistics. Students use a wide range of strategies to solve real-world, non-routine problems; regularly use various types of reasoning effectively; consistently connect one area or idea of mathematics to another; and communicate mathematical ideas clearly through a variety of representations.

Proficient: Students demonstrate a mastery of Algebra I concepts expected of all measured objectives included in the Algebra I Oklahoma C³ framework, and the ability to demonstrate mathematics knowledge, skills, and processes. Students at the Proficient level can translate word phrases and sentences into expressions and equations; use formulas and mathematics concepts to solve multi-step problems; simplify and factor polynomials; calculate slope; use and interpret slope and intercepts; distinguish between parallel, perpendicular, horizontal, or vertical lines; develop the equation of a line and graph linear relationships; match simple equations or inequalities to a graph, table, or situation; make valid predictions and/or arguments based on collected data; use a line-of-best-fit model to represent collected data; use mathematics to solve problems encountered in daily life; use a variety of mathematical representations to model real world situations.

Limited Knowledge: Students demonstrate partial mastery of the essential knowledge and skills expected of all measured objectives included in the Algebra I Oklahoma C³ framework. Students are inconsistent in applying the general knowledge and mathematical process skills necessary to solve problems effectively and reason mathematically. These students may need interventions as part of a comprehensive mathematics instructional program.

Unsatisfactory: Students who do not perform at least at the Limited Knowledge level and who will likely require remediation.