Arizona Mathematics Standards

2016 Content Emphasis

Algebra 1

Course content indicated by: ● major content; ▲ supporting content.

The Real Number System (N-RN)

▲ Use properties of rational and irrational numbers.

Quantities (N-Q)

● Reason quantitatively and use units to solve problems.

Seeing Structure in Expressions (A-SSE)

● Interpret the structure of expressions.

● Write expressions in equivalent forms to solve problems.

Arithmetic with Polynomials and Rational Expressions (A-APR)

▲ Perform arithmetic operations on polynomials.

● Understand the relationship between zeros and factors of polynomials.

Creating Equations (A-CED)

● Create equations that describe numbers or relationships.

Reasoning with Equations and Inequalities (A-REI)

● Understand solving equations as a process of reasoning and explain the reasoning.

▲ Solve equations and inequalities in one variable.

▲ Solve systems of equations.

▲ Represent and solve equations and inequalities graphically.

Interpreting Functions (F-IF)

● Understand the concept of a function and use function notation.

● Interpret functions that arise in applications in terms of the context.

● Analyze functions using different representations.

Arizona Mathematics Standards

Algebra 1 (continued)

Building Functions (F-BF)

- ● Build a function that models a relationship between two quantities.
- ▲ Build new functions from existing functions.

Linear, Quadratic, and Exponential Models (F-LE)

- ● Construct and compare linear, quadratic, and exponential models and solve problems.
- ● Interpret expressions for functions in terms of the situation they model.

Interpreting categorical and quantitative data (S-ID)

- ▲ Summarize, represent, and interpret data on a single count or measurement variable.
- ▲ Summarize, represent, and interpret data on two categorical and quantitative variables.
- ● Interpret linear models.

Conditional Probability and the Rules of Probability (S-CP)

- ▲ Understand independence and conditional probability and use them to interpret data.