

8-10 Essential Outcomes for Algebra One

Students will be able to...

1. Explain what algebra is and why we study it (covered in all chapters).
EALR 5.3.1, 2.2.2
2. Write and evaluate expressions, equations, and inequalities (covered in Chapter one). EALR 1.5.3
3. Apply the order of operations and use a problem solving plan to solve real-world problems (Chapter one). EALR 1.1.6
4. Classify real numbers, compare and order integers and rational numbers, perform basic operations, find square roots, and apply properties to evaluate and simplify expressions (Chapter two). EALR 1.1.2, 1.1.6, 1.1.7
5. Use properties of equality and the distributive property to solve multi-step equations with a single variable. (Chapter three). EALR 1.1.3
6. Rewrite equations by solving for a single variable or writing it in function form. This also includes manipulating formulas (Chapter three). EALR 1.5.4, 1.5.5
7. Plot points in a coordinate plane and use tables, x- and y-intercepts, and the slope and y-intercepts to graph linear equations and functions (Chapter four). EALR 1.5.2
8. Interpret slope as a rate of change in real-world situations and explore how changing the slope and the y-intercept changes the graph (Chapter four). EALR 1.5.2
9. Write equations of lines using a variety of information. EALR 1.5.2
 - i.e. the slope and the y-intercept
 - the slope and a point
 - two points (Chapter five)