

Middle School Algebra Continuum of Learning

GRADE: Middle School	Content Area: Math—Algebra
Standard: Algebra (HSA)	
Key Idea: Creating Equations (HAS-CED)	
Required Skills:	
a.) "I can create equations to represent numbers or relationships."	
Key Idea: Reasoning with Equations and Inequalities (HAS-REI)	
Required Skills:	
a.) "I can understand solving equations as a step-by-step process and explain how I came to the solution."	
b.) "I can solve equations and inequalities with one variable."	
c.) "I can solve systems of equations."	
d.) "I can represent and solve equations and inequalities using graphs."	
Key Idea: Seeing Structure in Expressions (HAS-SSE)	
Required Skills:	
a.) "I can understand and explain the parts of an expression."	
b.) "I can rewrite expressions in different ways to solve problems."	
Standard: Functions (HSF)	
Key Idea: Building Functions (HSF-BF)	
Required Skills:	
a.) "I can create a function that shows the relationship between two quantities."	
b.) "I can create new functions by modifying existing ones."	
Key Idea: Interpreting Functions (HSF-IF)	
Required Skills:	
a.) "I can understand what a function is and use function notation."	
b.) "I can explain what a function represents in real-life situations."	
c.) "I can analyze functions using graphs, tables, and equations."	
Key Idea: Linear, Quadratic, and Exponential Models (HSF-LE)	

Required Skills:

a.) "I can create and compare linear, quadratic, and exponential models to solve problems."

b.) "I can explain what the parts of a function mean in real-life situations."

Standard: Number Quantity (HSN)

Key Idea: Quantities (HSN-Q)

Required Skills:

a.) "I can think logically with numbers and use units to solve problems."

Key Idea: The Real Number System (HSN-RN)

Required Skills:

a.) "I can work with rational and irrational numbers and understand their properties."

Standard: Statistics and Probability (HSS)

Key Idea: Interpreting Categorical and Quantitative Data (HSS-ID)

Required Skills:

a.) "I can summarize, represent, and explain data for one type of measurement or count."

b.) "I can summarize, display, and interpret data involving two categorical and quantitative variables."

c.) "I can understand and explain what linear models represent."