

Welcome to OnTRACK Algebra I

Module	Lesson Title and Descriptor	TEKS
1 Functional Relationships	Describing Independent and Dependent Quantities (verbal/symbolic)	A.1A
	Analyzing Functional Relationships: Dependency Statements	A.1A
	Writing Equations to Describe Functional Relationships (table → equation)	A.1B
	Gathering Data and Determining Functional Relationships	A.1B
	Determining if a Relationship is a Functional Relationship	A.1B
	Writing Verbal Descriptions of Functional Relationships	A.1C
	Writing Equations to Describe Functional Relationships (verbal → equation)	A.1C
	Writing Inequalities to Describe Relationships (verbal → symbolic)	A.1C
	Writing Inequalities to Describe Relationships (graph → symbolic)	A.1D
	Writing Inequalities to Describe Relationships (symbolic → graph)	A.1D
	Connecting Multiple Representations of Functions	A.1D
	Writing the Symbolic Representation of a function (graph → symbolic)	A.1D
	Determining the Graphical Representation of a Function (symbolic → graph)	A.1D
	Describing a Relationship (graph → verbal)	A.1E
	Describing a Relationship (verbal → graph)	A.1E
	Interpreting Functional Relationships (verbal/symbolic descriptions)	A.1E
2 Properties and Attributes of Functions	Determining Parent Functions (verbal/graph)	A.2A
	Determining Reasonable Domains and Ranges (verbal/graph)	A.2B
	Interpreting Graphs	A.2C
	Interpreting Scatterplots	A.2D
	Making Predictions and Critical Judgments (table/verbal)	A.2D
	Collecting Data and Making Predictions	A.2D
3 Algebraic Symbols and	Writing Expressions and Equations to Solve Problems (verbal/pictorial → symbolic)	A.3A
	Writing Expressions to Model Patterns (table/pictorial → symbolic)	A.3B

Symbolic Manipulation	Finding Specific Function Values (verbal/symbolic)	A.4A
	Simplifying Polynomial Expressions (verbal/symbolic)	A.4A
	Solving Equations and Inequalities	A.4A
	Solving One-Variable Inequalities	A.4A A.7B
	Factoring to Solve Problems (verbal/symbolic)	A.4A
	Simplifying Algebraic Expressions (symbolic)	A.4B
	Connecting Function Notation and Equation Notation	A.4C
4 Linear Functions	Determining Linear Functions (verbal \rightarrow symbolic)	A.5A
	Determining Linear Functions (symbolic \rightarrow verbal)	A.5A
	Determining the Domain and Range for Linear Functions	A.5B
	Connecting Multiple Representations of Linear Functions	A.5C
	Developing the Concept of Slope	A.6A
	Determining Slope from Equations, Graphs, and Tables	A.6A
	Determining the Meaning of Slope and Intercepts	A.6B
	Determining the Meaning of Intercepts	A.6B
	Analyzing the effects of the changes in m and b on the graph of $y = mx + b$	A.6C
	Writing Equations of Lines	A.6D
	Determining Intercepts and Zeros of Linear Functions	A.6E
	Predicting the Effects of Changing y -intercepts in Problem Situations	A.6F
	Predicting the Effects of Changing Slope in Problem Situations	A.6F
Direct Variation and Proportional Change	A.6C	
5 Linear Equations and Inequalities	Formulating Linear Equations to Solve Problems	A.7A
	Formulating Linear Inequalities to Solve Problems	A.7A
	Investigating Methods for Solving Linear Equations and Inequalities	A.7B
	Selecting a Method to Solve Equations or Inequalities	A.7B
	Solving Linear Equations and Inequalities	A.7B
	Solving Linear Inequalities	A.7B
	Determining Reasonableness of Solutions (linear equations)	A.7C
	Determining Reasonableness of Solutions (linear inequalities)	A.7C

	Formulating Systems of Equations (verbal → symbolic)	A.8A
	Solving Systems of Equations (concrete models)	A.8B
	Solving Systems of Equations with Graphs	A.8B
	Solving Systems of Equations with Tables	A.8B
	Solving Systems of Equations with Algebraic Methods	A.8B
	Determining Reasonableness of Solutions (system of equations)	A.9A
6 Quadratic and Other Non-Linear Functions	Determining the Domain and Range for Quadratic Functions	A.9A
	Determining the Domain and Range for Quadratic Functions (Restricted Domain/Range)	A.9A
	Analyzing the Effects of the Changes in a on the Graph of $y = ax^2 + c$	A.9B
	Analyzing the Effects of the Changes in c on the Graph of $y = ax^2 + c$	A.9C
	Analyzing Graphs of Quadratic Functions	A.9D
	Solving Quadratic Equations (concrete models)	A.10A
	Solving Quadratic Equations (tables)	A.10A
	Solving Quadratic Equations (graphs)	A.10A
	Solving Quadratic Equations (algebraic methods)	A.10A
	Quadratics: Connecting Roots, Zeros and x -intercepts	A.10B
	Applying the Laws of Exponents (verbal/symbolic)	A.11A
	Using the Laws of Exponents to Solve Problems	A.11A
	Analyzing Situations Involving Inverse Variation (tables)	A.11B
	Analyzing Situations Involving Inverse Variation (graphs)	A.11B
	Analyzing Situations Involving Inverse Variation (algebraic methods)	A.11B
	Analyzing Situations Involving Exponential Growth and Decay (tables)	A.11C
Analyzing Situations Involving Exponential Growth and Decay (graphs)	A.11C	
Analyzing Situations Involving Exponential Growth and Decay (algebraic methods)	A.11C	