

AAD-Algebra I

Course Code(s):	TBD	
Prerequisite(s):	None	
Credit:	1	
Grade Level:	9-12	
Graduation Requirements:	This course satisfies one of four mathematics credit requirements for the alternate academic diploma	
Programs of Study and Sequence:	This is the first course in mathematics program of study.	
Teacher Endorsement(s):	TBD	

Course Requirements

Conceptual Category: Number and Quantity (N)*				
Domain: Quantities (Q)				
Cluster	Standard Code	Standard		
A. Units and quantitative reasoning	AAD.A1.N.Q.A.1	Identify and interpret appropriate quantity represented by a symbol/picture or number		
	AAD.A1.N.Q.A.2	Recognize and use units to understand problems and guide the solution of the problem including units in formulas, graphs, and data displays.		
	AAD.A1.N.Q.A.3	Solve problems involving units of measurement. H.ME.1a2		
	AAD.A1.N.Q.A.4	Simplify expressions that include exponents H.NO.1a1		
Conceptual Category: Algebra (A)				
Domain: Seeing Structure in Expressions (SEE)				
Cluster	Standard Code	Standard		

A. Interpret expressions	AAD.A1.A.SEE.A.1*	Interpret accurately compute using the		
		symbols of operation (+, -, x, ÷) and equation		
		(=).		
		Interpret the parts of an expression including		
	AAD.AT.A.SEE.A.Z	terms and variables (coefficients).		
B. Write		Write a linear expression for a graphic		
equivalent		representation. (i.e. "3 x 4 =" to represent a		
expressions	AAD.AT.A.SEE.D.T	drawing of three bags with four pencils in each		
		in a word problem requesting a total).		
Conceptual Category: Algebra (A)				
Domain: Arithmetic with Polynomials and Rational Expressions (APR)				
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Cluster	Standard Code	Standard		
A. Perform		Solve an equation that includes one or two		
arithmetic	AAD.A1.A.APR.A.1	Variables. H.PRF.2D2		
operations on				
polynomials				
Conceptual Category: Algebra (A)				
Domain: Creating Equations* (CED)				
Cluster	Standard Code	Standard		
A. Create		Write a linear equation for a real world or		
equations to		narrative problem. H.PRF.2b1		
describe		Create equations to represent the relationship		
numbers,	AAD.AT.A.CLD.A.Z	between two quantities.		
relationships, or		Create an equation from a graphic, data		
represent a	AAD.A1.A.CED.A.3	display, or picture representation.		
graphic/picture				
Conceptual Category: Algebra (A)				
Domain: Reasoning with Equations and Inequalities (REI)				
Cluster	Standard Code	Standard		
A. Understand		Solve a multi-step equation or problem using		
that solving	AAD.A1.A.REI.A.1	calculation, picture or graphic representations,		
equations is a				

process of		reference charts, or mathematical tools and	
reasoning		check the answer to reasonableness.	
B. Solve		Compare two quantities or equations for	
equations to		equality and inequality (>, =, <).	
determine	AAD. A1.A.REI.B.1		
equality or			
inequality			
C. Solve	AAD.A1.A.REI.C.1	Solve equations written in various formats	
equations		(horizontal, vertical, narrative).	
D. Represent and		Identify a graphic representation of a linear	
solve equations	AAD.A1.A.REI.D.1	model of a real world problem. H.PRF.1c1	
graphically			
Conceptual Category: Functions (F)			
Domain: Interpreting Functions (IF)			
Cluster	Standard Code	Standard	
A. Understand patterns of computation	AAD.A1.F.IF.A.1	Understand the relationship of addition to multiplication and subtraction to division (repeated addition is multiplication, repeated subtraction is division)	
	AAD.A1.F.IF.A.2	Understand and recognize the calculations for skip counting (ex. Counting by 5 means each number is 5 more than the last).	
B. Interpret and predict based on a pattern demonstrated in context.	AAD.A1.F.IF.B.1	Determine or predict a missing quantity from a representation of a mathematical pattern.	
	AAD.A1.F.IF.B.2	Determine of predict based on a graphic model of a pattern. (ex. Temperature weather chart, running total of projects assembled). H.PRF.2c1	
C. Analyze equations	AAD.A1.F.IF.C.1	Write an equivalent or simplified equation (ex. 5 x 3 = 15 is the simplified equivalent of $3 + 3 + 3 + 3 = 15$)	
Conceptual Category: Functions (F)			
Domain: Building Functions (BF)			
Cluster	Standard Code	Standard	

A. Build an equations that represents the relationship between two quantities	AAD.A1.F.BF.A.1	*Write an equation that shows the relationship between two quantities (ex. 40 > 14; 37 = 37; 20 + 5 =25)		
Conceptual Category: Functions (F)				
Domain: Linear, Quadratic, and Exponential Models* (LE)				
Cluster	Standard Code	Standard		
A. Construct and solve linear	AAD.A1.F.LE.A.1	Create and solve a linear equation for a real world problem.		
equations to solve problems	AAD.A1.F.LE.A.2	Create and solve a linear equation using a graph, geometric representation, or table.		
B. Solve a linear equation for a missing attribute	AAD.A1.F.LE.B.1	Solve a linear equation to find a missing attribute when given the area, volume, or surface area. H.ME.1b2		
Conceptual Category: Statistics and Probability (S)				
Domain: Interpreting Categorical and Quantitative Data (ID)				
Cluster	Standard Code	Standard		
A. Summarize and interpret data	AAD.A1.S.ID.A.1	Use a graph, data chart, table, histogram, of other data display to draw conclusions or identify trends (i.e. most, least, popular, not as popular)		
B. Develop and interpret data displays	AAD.A1.S.ID.B.1	Create and/or complete a graph from data sets, histograms, or box plots. H.DPS.1b1		

Standards Numbering Notes

The numbering is not exactly parallel to the state standards but is designed to create some consistency across disciplines for the special education teachers who may be teaching multiple subjects.

The following system was used to number the mathematics standards: AAD.A1.A.SSE.A.1 Alternate academic diploma (**AAD**) standards Algebra I (**A1**) is the course Algebra (**A**) is the conceptual category Seeing Structure in Expressions (**SSE**) is the domain. **A** is the first cluster (ordered A, B, C etc. for first, second, third cluster within the domain, etc.) **1** is the standard number in the cluster (standards numbered consecutively within each cluster)

Domains indicated with a * are the major work of the grade

For standards that align to the MSAA Core Content Connectors (CCC), the code for that connector will appear after the standard and either begins with an "H" indicating high school level.