

AAD—Algebra II

Course Code(s):	TBD
Prerequisite(s):	Algebra I or AAD Algebra I
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 typically the second course in a mathematics program of study.
Teacher Endorsement(s)	TBD

Course Requirements

12 (2 WK5)

(ZWK3)

	Domain: The R	Real Number System (RN)
Cluster	Standard Code Standard	
A. Extend the property of numbers to decimals and fractions	AAD.A2.N.RN.A.1	Understand and compute decimals to the hundredths (0.00) as related to money calculations.
	AAD.A2.N.RN.A.2	Understand and compute common fractions used in measurement and real world problems (i.e., cooking measurements) coin fraction of a dollar)
		y: Number and Quantity (N)* : Quantities (Q)
Cluster	Standard Code	Standard
A. Units and quantitative reasoning	AAD.A2.N,Q.A.1	Solve problems involving units of measurement. H.ME.1a2
	Conceptual Cata	: Number and Quantity (N)*

6 INK

(2 WKS)

Cluster	Standard Code	Standard
A. Simply equations using arithmetic operations.	AAD.A2.N.CN.A.1	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.A2.A.SEE.A.1*	Interpret accurately compute using the symbols of operation $(+, -, x, \div)$ and equation $(=)$
	AAD.A2.A.SEE.A.2	Interpret the parts of an expression including terms and variables (coefficients).
B. Write equivalent expressions	AAD.A2.A.SEE.B.1	Write a linear expression for a graphic representation. (i.e., "3 x 4 =" to represent a drawing of three bags with four pencils in each in a word problem requesting a total).
CAP1 C3310113	AAD.A2.A.SEE.B.2	Identify equivalent expressions (e.g, $10 + 5 = 15$ is equivalent to $5 + 10 = 15$)

Conceptual Category: Algebra (A)

Domain: Arithmetic with Polynomials and Rational Expressions (APR)

Cluster	Standard Code	Standard
A. Understand the relationship between place value and zero.	AAD.A2.A.APR.A.1	Understand that the location of zero within a number can impact the value of the number (e.g, In 108, the zero is the number of 10s, making the 1=100 and 8=8)
B. Perform arithmetic operations on polynomials	AAD.A2.A.APR.B.2	Solve an equation that includes one or two variables. H.PRF.2b2

Conceptual Category: Algebra (A)

Domain: Creating Equations* (CED)

Cluster	Standard Code	Standard
A. Create equations to	AAD.A2.A.CED.A.1	Create equations to represent the relationship between two quantities.

2 WK.

5 2WK5)

3 (ZWK5) represent relationships or data

AAD.A2.A.CED.A.2

Create an equation from a graphic, data display, or picture representation.

Conceptual Category: Algebra (A)

Domain: Reasoning with Equations and Inequalities (REI)

Cluster	Standard Code	Standard
A. Understand that solving equations is a process of reasoning	AAD.A2.A.REI.A.1	Solve a multi-step equation or problem using calculation, picture or graphic representations, reference charts, or mathematical tools and check the answer to reasonableness.
B. Solve equations to determine equality or inequality	AAD. A2.A.REI.B.1	Compare two quantities or equations for equality and inequality (>, =, <).
C. Solve equations	AAD.A2.A.REI.C.1	Solve equations written in various formats (horizontal, vertical, narrative).
D. Represent and solve equations graphically	AAD.A2.A.REI.D.1	Identify a graphic representation of a linear model of a real world problem. H.PRF.1c1

Conceptual Category: Functions (F)

Domain: Interpreting Functions (IF)

Cluster	Standard Code	Standard
A. Interpret and predict based on a pattern demonstrated in context.	AAD.A2.F.IF.A.1	Determine or predict a missing quantity from a representation of a mathematical pattern
	AAD.A2.F.IF.A.2	Determine of predict based on a graphic model of a pattern. (e.g., Temperature weather chart, running total of projects assembled). H.PRF.2c1
B. Analyze different representations of an equation or operation.	AAD.A2.F.IF.B.1	Compare two representations of the same equation (e.g., A picture of 5 apples in four baskets and the equation 5 x 4 =).
	AAD.A2.F.IF.B.2	Compare and contrast tow equations with similar numbers but different operations (e.g., $10 + 10 = 20$ and $10 \times 10 = 20$, one is addition and one is multiplication and the multiplication equation will have a larger value solution)

Conceptual Category: Functions (F)

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Cluster	Standard Code	Standard
A. Build an equations that represents the relationship between two quantities	AAD.A2.F.BF.A.1	*Write an equation that shows the relationship between two quantities (e.g., $40 > 14$; $37 = 37$ 20 + 5 = 25)

Domain: Linear, Quadratic, and Exponential Models* (LE)

Cluster	Standard Code	Standard
A. Construct and solve linear	AAD.A2.F.LE.A.1	Create and solve a linear equation for a real world problem.
equations to solve problems	AAD.A2.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.A2.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: Functions (F)

Domain: Trigonometric Functions (TF)

Cluster	Standard Code	Standard
A. Understand the relationship between a solid and a shape	AAD.A2.F.TF.A.1	Recognize the shape of a face or bisecting plane of a solid (3-dimentional shape/object). (e.g., The bisecting plane of a sphere is a circle; The face of a block is a square.)

Conceptual Category: Statistics and Probability (S)

Domain: Interpreting Categorical and Quantitative Data (ID)

Cluster	Standard Code	Standard
A. Summarize and interpret data	AAD.A2.S.ID.A.1	Use descriptive statistics range, median, mode, mean, and outlier/gaps to describe a data set. H.DPS.1c1
	AAD.A2.S.ID.B.1	Create and/or complete a graph from data sets, histograms, or box plots. H.DPS.1b1



B. Develop and interpret data displays	AAD.A2.S.ID.B.2	Compare and contrast the data represented in a graph, chart, histogram, or other data display.
	Conceptual Categor	y: Statistics and Probability (S)
Do	omain: Making Inferen	ces and Justifying Conclusions (IC)
Cluster	Standard Code	Standard
A. Make inferences from equations and data displays	AAD.A2.S.IC.A.1	Recognize the value of data in making a decision or determining a preference. (e.g., Looking at a graphic depiction of the annual salary for careers being considered, determine which would support a higher quality of life.)
	AAD.A2.S.IC.A.2	Determine data or data display needed to support a decision or decision.
	Conceptual Category	: Statistics and Probability (S)
Doma	in: Conditional Probab	ility and the Rules of Probability (CP)
Cluster	Standard Code	Standard
A. Understand robability related	AAD.A2.S.CP.A.1	Recognize the difference between chance and consequence as related to real world decisions. (e.g., If the Predators win, we will have a

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.

popcorn party (chance) vs. If you complete your

weekly work list you will get popcorn (consequence)).

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

to real world

decisions

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.