

Chapter 1 Solving Linear Equations and Inequalities

Lesson	Topic	AZ Standards
	A) Solving Multi-Step Equations	
1-1 Solving Linear Equations	B) Solving Equations with Rational Coefficients	A2.A.CED.1, A2.A.REI.1
Equations	C) Solving Proportions	- A2.A.NLI.1
1-2 Solving Literal	A) Solving One-Step and Two-Step Literal Equations	A4 A CED 4
Equations	B) Solving Multi-Step Literal Equations	A1.A.CED.4
	A) Solving Absolute Value Equations with Single Variable Inside Absolute Value	
1-3 Solving Absolute Value Equations	B) Solving Absolute Value Equations with Linear Expression Inside Absolute Value	A2.A.CED.1
	C) Solving Absolute Value Equations with Variables on Both Sides	
	A) Solving One-Step and Two-Step Linear Inequalities	
1-4 Solving Linear Inequalities	B) Solving Multi-Step Linear Inequalities	A2.A.CED.1
mequanties	C) Graphing the Solution of Linear Inequalities	
1-5 Solving Compound	A) Graphing Compound Inequalities	A2.A.CED.1
Inequalities	B) Solving Compound Inequalities	AZ.A.CED.1
1-6 Solving Absolute Value Inequalities	A) Absolute Value Inequalities with Absolute Value Isolated	
	B) Solving Multi-Step Absolute Value Inequalities	A2.A.CED.1
	C) Solving Absolute Value Inequalities with Variables on Both Sides	



Chapter 2 Linear Functions and Inequalities

Lesson	Topic	AZ Standards
2-1 Interval Notation	A) Writing Interval Notation Given Graphs or Inequalities	A1.A.CED.3
	B) Using Interval Notation to Graph	
	A) Identifying Functions	
2-2 Functions	B) Domain and Range of Discrete Functions	A1.F.IF.5
	C) Domain and Range of Continuous Functions	
	A) Writing Function Notation	_
2-3 Function Notation	B) Input and Output in Function Notation	A1.F.IF.1,
2 3 Tunction Notation	C) Evaluating and Solving Equations Written with Function Notation	A1.F.IF.2
	A) Graphing Linear Functions	A2.F.IF.4,
2-4 Linear Functions	B) Writing Equations of Linear Functions	A2.F.IF.6, A2.F.IF.7, A2.F.IF.9
2-5 Parallel and	A) Parallel Lines	A2.F.IF.4,
Perpendicular Lines	B) Perpendicular Lines	A2.F.IF.6
	A) Equations and Graphs of Piecewise Functions	A2.F.IF.4,
2-6 Piecewise Functions	B) Evaluating Floor and Ceiling Functions	A2.F.IF.6,
2-6 Piecewise Functions	C) Equations and Graphs of Floor and Ceiling Functions	A2.F.IF.7, A2.F.IF.9
	A) Graphing the Absolute Value Parent Function	_
	B) Absolute Value Functions and Translations	A2.F.IF.4,
2-7 Transformations of	C) Absolute Value Functions and Reflections	A2.F.IF.6,
Absolute Value Functions	D) Absolute Value Functions and Dilations	A2.F.IF.7,
	E) Absolute Value Functions and Transformations	- A2.F.IF.9, - A2.F.BF.3
	F) Writing Equations of Transformed Absolute Value Functions	
2-8 Linear Inequalities	A) Solutions of Two-Variable Inequalities	
	B) Graphing Linear Inequalities	A1.A.CED.3
	C) Writing Equations of Linear Inequalities	



Chapter 3 Systems of Equations and Inequalities

Lesson	Topic	AZ Standards
3-1 Systems of Equations	A) Solutions of Systems of Linear Equations	- A2.A.REI.11
with Two Variables	B) Solving Systems of Linear Equations	AZ.A.REI.II
	A) Solutions of Systems of Linear Inequalities	
3-2 Systems of Inequalities	B) Graphing Systems of Linear Inequalities	A1.A.CED.3
	C) Writing Systems of Linear Inequalities	
	A) Feasible Regions in Linear Programming	_
3-3 Linear Programming	B) Maximum and Minimum Values of Objective Functions	A1.A.CED.3
3-4 Substitution to Solve	A) Solutions of Systems of Linear Equations with Three Variables	
Systems of Equations with Three Variables	B) Substitution to Solve Systems of Linear Equations with Three Variables Given Values	
	C) Substitution to Solve Systems of Linear Equations with Three Variables	_
3-5 Elimination to Solve Systems of Equations with Three Variables	A) Writing Three-Variable Equations with Two Variables	
	B) Elimination to Solve Systems of Linear Equations with Three Variables	



Chapter 4 Exponents and Roots

Lesson	Topic	AZ Standards
4.1 Everament Dramantics	A) Simplifying Zero and Negative Powers	_
	B) Product of Powers Property of Exponents	A2.N.RN.2,
4-1 Exponent Properties	C) Quotient of Powers Property of Exponents	A2.A.SSE.2
	D) Power Property of Exponents	
4-2 Combining Exponent	A) Product and Quotient of Powers Properties to Multiply and Divide	A2.N.RN.2,
Properties	B) Combining Power of a Product, Power of a Quotient, and Power of a Power	A2.A.SSE.2
	A) Simplifying Square Root Expressions with Natural Radicands	
4-3 Simplifying Square Roots	B) Simplifying Square Roots with Variable Powers in the Radicand	A2.N.RN.2, A2.A.SSE.2
	C) Simplifying Square Roots with Variable Expressions in the Radicand	-
	A) Adding and Subtracting Square Roots	
4-4 Operations with	B) Products of Square Roots	
Square Roots	C) Quotients of Square Roots	A2.N.RN.2
	D) Rationalizing Radical Expressions	-
458.0.15	A) Writing nth Roots as Rational Exponents	A2.N.RN.1,
4-5 Rational Exponents and nth Roots	B) Writing Rational Exponents as nth Roots	A2.N.RN.2,
	C) Evaluating Powers with Rational Exponents	A2.A.SSE.2
	A) Simplifying nth Roots of Prime Factorized Numbers with Single Bases	A2.N.RN.1,
4-6 nth Roots of Integers	B) Simplifying nth Roots of Products of Prime Factors	A2.N.RN.2
	C) Simplifying nth Roots of Integers	-
	A) Simplifying nth Roots of nth Powers	
4-7 nth Roots of Variable Expressions	B) Simplifying Odd nth Roots of Single Variables	A2.N.RN.1,
	C) Simplifying Even nth Roots of Single Variables	A2.N.RN.2, A2.A.SSE.2
	D) Simplifying nth Roots of Variable Expressions	



Chapter 5 Polynomial Operations and Complex Numbers

Lesson	Topic	AZ Standards
5-1 Adding, Subtracting, and Multiplying	A) Adding and Subtracting Polynomials	
	B) Using the Distributive Property to Multiply Polynomials	A2.A.SSE.2, A2.F.BF.1.b
Polynomials	C) Special Products of Polynomials	AZ.F.BF.1.D
	D) Product of Multiple Polynomials	
	A) Factoring Quadratics Whose Leading Coefficient is One	
5-2 Factoring Quadratics	B) Factoring Quadratics Whose Leading Coefficient is Greater Than One	A2.A.SSE.2,
o I raccoming Quantum	C) Factoring Quadratics Whose Leading Coefficient is Negative	A2.A.APR.4
	D) Factoring Quadratics After Factoring Out the GCF	
	A) Difference of Two Perfect Squares	
5-3 Factoring Special	B) Perfect Square Trinomials	A2.A.SSE.2,
Cases	C) Sum of Difference of Perfect Cubes	A2.A.APR.4
	D) Factoring Special Case Polynomials	
	A) Using Exponent Properties to Factor Higher Degree Polynomials	
5-4 Factoring Higher	B) Using Grouping to Factor Higher Degree Polynomials	A2.A.SSE.2, A2.A.APR.4
Degree Polynomials	C) Factoring Trinomials of Degree Thee or Greater	AZ.A.APK.4
	D) Factoring Higher Degree Polynomials After Factoring Out the GCF or -1	
5-5 Polynomial Long	A) Long Division of Polynomials with No Remainders	A2.A.SSE.2,
Division	B) Long Division of Polynomials with Remainders	A2.A.APR.6
	A) Setting Up Synthetic Division	
5-6 Synthetic Division	B) Different Parts of Synthetic Division	A2.A.SSE.2, A2.A.APR.6
	C) Synthetic Division of Polynomials	AZ.A.AI N.O
	A) Simplifying Powers of the Imaginary Unit	
5-7 Introductions to Imaginary Numbers	B) Multiplying Expressions with Imaginary Units	A2.N.CN.1,
	C) Simplifying Square Root Expressions with Negative Radicands	A2.A.SSE.2



Chapter 5 Polynomial Operations and Complex Numbers (cont.)

Lesson	Topic	AZ Standards
5-8 Operations with Complex Numbers	A) Parts of Complex Numbers	
	B) Adding and Subtracting Complex Numbers	A2.N.CN.1,
	C) Multiplying and Simplifying Expressions with Complex Numbers	A2.A.SSE.2
5-9 Conjugates	A) Irrational and Complex Conjugates	
	B) Rationalizing Using Irrational Conjugates	A2.N.CN.1, — A2.A.SSE.2
	C) Rationalizing Using Complex Conjugates	



Chapter 6 Quadratic Functions and Equations

Lesson	Topic	AZ Standards
	A) Graphing the Quadratic Parent Functions	
	B) Quadratic Functions and Translations	
6-1 Transformations of	C) Quadratic Functions and Reflections	A2.F.IF.4,
Quadratic Functions	D) Quadratic Functions and Dilations	A2.F.IF.6,
	E) Quadratic Functions and Transformations	A2.F.BF.3
	F) Writing Equations of Transformed Quadratic Functions	
	A) Standard Form of Quadratic Functions	A2.F.IF.4,
6-2 Standard Form of	B) Features of Quadratic Graphs	A2.F.IF.6,
Quadratic Functions	C) Features of Quadratic Equations	A2.F.IF.7,
	D) Domain and Range of Quadratic Functions	A2.F.IF.9
	A) Writing the Vertex Form of Quadratic Functions	A2.F.IF.4,
6-3 Vertex Form of	B) Features of Quadratic Equations in Vertex Form	A2.F.IF.6,
Quadratic Functions	C) Writing Equations of Quadratic Functions in Vertex Form	A2.F.IF.7, A2.F.IF.9
	A) Solutions and x-Intercepts of Quadratic Functions	A2.N.Q.2, A2.A.SSE.2,
6-4 Solving Quadratics by Graphing or Factoring	B) Graphing to Solve Quadratic Equations	A2.A.APR.3, A2.A.CED.1,
	C) Factoring to Solve Quadratic Equations	A2.A.REI.4, A2.A.REI.7
6-5 Solving Quadratics by	A) Quadratic Equations with Complex Solutions	A2.N.CN.7, A2.A.SSE.2,
Completing the Square	B) Completing the Square to Solve Quadratic Equations	A2.A.CED.1, A2.A.REI.1, A2.A.REI.4
	A) Writing the Quadratic Formula	
6-6 The Quadratic Formula	B) Solving Quadratic Equations with Real Solutions	A2.N.CN.7, A2.A.CED.1,
	C) Solving Quadratic Equations with Complex Solutions	A2.A.REI.4
6-7 Discriminants of Quadratic Equations	A) Finding Discriminants	
	B) Solutions of Quadratic Equations and Discriminants	-
	C) Number of Solutions and x-Intercepts	



Chapter 6 Quadratic Functions and Equations (cont.)

Lesson	Topic	AZ Standards
6-8 Quadratic Inequalities	A) Solutions of Quadratic Inequalities	
	B) Solving Quadratic Inequalities	A2.A.CED.1
	C) Graphing Quadratic Inequalities	

Chapter 7 Polynomial Functions and Equations

Lesson	Topic	AZ Standards
7-1 Factored Form	A) Zeros of Polynomial Functions in Factored Form	_
	B) Writing the Equations of Polynomial Functions Given Zeros or Roots	A2.A.SSE.2, - A2.A.APR.3
	C) Writing the Equations of Polynomial Functions in Factored Form	- / ١٤./ ١./ ١١
	A) Solutions of Polynomial Equations in Factored Form	
7-2 Roots of Polynomial	B) Multiplicity of Roots	A2.A.SSE.2,
Equations	C) Number of Complex Roots	A2.A.APR.3
	D) Complex and Irrational Roots of Polynomial Equations	_
7-3 Polynomials with Real	A) Writing the Factor Given a Root of a Polynomial	A2.A.SSE.2
and Complex Zeros	B) Roots and Factored Form of a Polynomial	A2.A.33E.2
7-4 Roots and the	A) Synthetic Division and Factoring	A2.A.SSE.2,
Remainder Theorem	B) Polynomial Function and the Remainder Theorem	A2.A.APR.2
	A) Classifying Polynomial Graphs	A2.A.APR.3,
7-5 End Behavior	B) Graphs of Even and Odd Degree Functions	A2.F.IF.4,
	C) Graphs and End Behavior	A2.F.IF.7
7-6 Graphs of Polynomial Functions	A) Real Roots of Polynomial Equations	
	B) Degree of Polynomial Function and Multiplicity	A2.A.APR.3, A2.F.IF.4,
	C) Degree of Polynomial Function Given Graph	A2.F.IF.4,
	D) Domain and Range of Polynomial Functions	



Chapter 8 Radical Functions and Equations

Lesson	Topic	AZ Standards
	A) Function Notation	-
	B) Operations of Functions Using Coordinate Pairs or Tables	
8-1 Operations of Functions	C) Operations of Functions Using Graphs	A2.F.BF.1.b
Tanctions	D) Operations of Functions Using Equations	
	E) Domain of a Polynomial Sum, Difference, or Product	
	A) Equivalent Composition Functions	
8-2 Composition of	B) Evaluating Composition of Functions	A2.F.BF.1.b,
Functions	C) Input and Output of Composition of Functions	A2.F.BF.4.a
	D) Domain of Composition of Functions	
	A) Inverse of a Relation	
8-3 Inverse Relations and	B) Graphs of Functions and Their Inverses	A2.F.BF.4.a,
Functions	C) Function Notation and Inverses	A2.F.BF.4.b, A2.F.BF.4.c
	D) Finding Inverse Functions	_
	A) Graphing the Square Root Parent Function	
	B) Square Root Functions and Translations	A2.F.IF.4,
8-4 Transformations of	C) Square Root Functions and Reflections	A2.F.IF.6,
Square Root Functions	D) Square Root Functions and Dilations	A2.F.IF.7,
·	E) Square Root Functions and Transformations	A2.F.IF.9, A2.F.BF.3
	F) Writing Equations of Transformed Square Root Functions	712.11.01.0
	A) Domain of Square Root Functions	
8-5 Domain and Range of	B) Range of Square Root Functions	-
Radical Functions	C) Domain and Range of Cube Root Functions	
	D) Domain and Range of Radical Functions	
8-6 Solving Radical	A) Solving Radical Equations with Variable on One Side	A2.A.REI.1,
Equations	B) Solving Radical Equations with Variable on Both Sides	A2.A.REI.2



Chapter 8 Radical Functions and Equations (cont.)

Lesson	Topic	AZ Standards
8-7 Solving Equations with Rational Exponents	A) Solving Equations with Rational Exponents - Variable on One Side	A2.A.REI.1,
	B) Solving Equations with Rational Exponents - Variable on Both Sides	A2.A.REI.2

Chapter 9 Exponential Functions and Equations

Lesson	Topic	AZ Standards
	A) Using Equivalent Bases to Solve Exponential Equations	
9-1 Solving Exponential Equations	B) Solving Exponential Equations After Isolating	A2.A.CED.1, - A2.A.REI.11
Equations	C) Using Equivalent Bases and Negative Exponents to Solve Exponential Equations	- /\Z./\.\\\LI\.II
	A) Equations and Graphs of Exponential Functions	A2.A.SSE.3.c, A2.F.IF.4,
9-2 Exponential	B) Asymptotes	A2.F.IF.6,
Functions	C) Domain and Range of Exponential Functions	A2.F.IF.7, A2.F.IF.8.b,
	D) Graphing Exponential Functions	A2.F.IF.9, A2.F.LE.5
	A) Exponential Functions and Translations	- A2.F.IF.4,
	B) Exponential Functions and Reflections	A2.F.IF.6,
9-3 Transformations of	C) Exponential Functions and Dilations	A2.F.IF.7,
Exponential Functions	D) Exponential Functions and Transformations	A2.F.IF.8.b,
	E) Writing Equations of Transformed Exponential Functions	A2.F.IF.9, A2.F.LE.5
9-4 Exponential Growth and Decay	A) Classifying Graphs and Equations as Exponential Growth or Decay	A2.N.Q.2,
	B) Equations of Exponential Growth or Decay	A2.F.IF.8.b, A2.F.LE.5,
	C) Writing and Evaluating Exponential Growth and Decay Equations	A2.S.ID.10



Chapter 10 Logarithms

Lesson	Topic	AZ Standards
10-1 Introduction to Logarithms	A) Parts of a Logarithmic Expression or Equation	A2.F.LE.4
	B) Logarithms and Exponential Equations	
	C) Common Logarithm	
	D) Evaluating Logarithms with a Calculator	
10-2 Evaluating	A) Evaluating a Logarithm Without Rewriting the Argument or Base	A2.5.1.5.4
Logarithms	B) Evaluating a Logarithm After Rewriting the Argument or Base	A2.F.LE.4
	A) Product Property of Logarithms	
10-3 Product and Quotient Properties of	B) Quotient Property of Logarithms	A2.F.LE.4
Logarithms	C) Using the Product or Quotient Property of Logarithms to Approximate	- A2.I .LL. 4
	A) Power Property of Logarithms	
10-4 Power Property and	B) Change of Base Formula	- - A2.F.LE.4
Change of Base Formula	C) Using the Power Property of Logarithms to Approximate	- 72.1.12.7
	A) Using the Property of Equality to Solve Logarithmic Equations	A2.F.LE.4
10-5 Solving Basic	B) Solving Logarithmic Equations with Linear Expression in Base or Argument	
Logarithmic Equations	C) Solving Logarithmic Equations After Isolating	_
	D) Solving Logarithmic Equations with Logarithm in Base or Argument	
10-6 Solving Logarithmic Equations with Properties	A) Product or Quotient Properties to Solve Logarithmic Equations	A2.F.LE.4
	B) Power, Product, and Quotient Properties to Solve Logarithmic Equations	
	C) Change of Base Formula to Solve Exponential Equations	-
10-7 Logarithmic Functions	A) Identifying Graphs and Equations of Logarithmic Functions	A2.A.REI.11, A2.F.IF.4,
	B) Domain and Range of Logarithmic Functions	A2.F.IF.6, A2.F.IF.7,
	C) Graphing Logarithmic Functions	A2.F.IF.9, A2.F.LE.4



Chapter 10 Logarithms (cont.)

Lesson	Topic	AZ Standards
10-8 Transformations of Logarithmic Functions	A) Logarithmic Functions and Translations	A2.A.REI.11,
	B) Logarithmic Functions and Reflections	A2.F.IF.4,
	C) Logarithmic Functions and Dilations	A2.F.IF.6,
	D) Logarithmic Functions and Transformations	A2.F.IF.7, A2.F.IF.9,
	E) Writing Equations of Transformed Logarithmic Functions	A2.F.LE.4
10-9 Natural Logarithms	A) Parts of Natural Logarithm	A2.F.IF.4,
	B) Evaluating Natural Logarithmic Expressions	— A2.F.IF.6, A2.F.IF.7,
	C) Solving Natural Logarithmic Equations	A2.F.IF.9,
	D) Graphs of Natural Logarithmic Functions	— A2.F.BF.3, A2.F.LE.4



Chapter 11 Sequences and Series

Lesson	Topic	AZ Standards
11 1 Commonos	A) Terms of a Sequence	A2.F.BF.2
	B) Introduction to Arithmetic Sequence	
11-1 Sequences	C) Introduction to Geometric Sequence	
	D) Classifying Sequences	
	A) Recursive Formula of an Arithmetic Sequence	
11-2 Arithmetic Sequences	B) Writing and Evaluating Explicit Formula of an Arithmetic Sequence	A2.F.BF.1.a, A2.F.BF.2
	C) Recursive and Explicit Formulas of an Arithmetic Sequence	- A2.1.D1.2
	A) Recursive Formula of a Geometric Sequence	
11-3 Geometric Sequences	B) Writing and Evaluating Explicit Formula of a Geometric Sequence	A2.F.BF.1.a, A2.F.BF.2
	C) Recursive and Explicit Formulas of a Geometric Sequence	
44.46.4	A) Sequence and Series	-
11-4 Series and Sigma Notation	B) Parts of Sigma Notation	A2.F.BF.2
	C) Series and Sigma Notation	
	A) Finite Series of an Arithmetic Sequence	A2.F.BF.2
11-5 Arithmetic Series	B) Writing and Finding the Partial Sum of Arithmetic Sequence or Series	
	C) Finite Arithmetic Series Written in Sigma Notation	
11-6 Finite Geometric Series	A) Finite Series of a Geometric Sequence	A2.A.SSE.4, A2.F.BF.2
	B) Writing and Finding the Partial Sum of Geometric Sequence or Series	
	C) Finite Geometric Series Written in Sigma Notation	
44.71.65.11.0	A) Convergent and Divergent Series	A2.F.BF.2
11-7 Infinite Geometric Series	B) Writing and Evaluating an Infinite Geometric Series	
	C) Infinite Geometric Series and Sigma Notation	



Chapter 12 Rational Functions and Equations

Lesson	Topic	AZ Standards
12-1 Direct and Inverse Variation	A) Direct Variation	A2.F.IF.6
	B) Inverse Variation	
	A) Graphing the Rational Parent Function	
	B) Rational Functions and Translations	A2.A.REI.11,
12.2 Transformations of	C) Rational Functions and Reflections	A2.F.IF.4,
12-2 Transformations of Rational Functions	D) Rational Functions and Dilations	A2.F.IF.6, A2.F.IF.7,
	E) Rational Functions and Transformations	A2.F.IF.9,
	F) Writing Equations of Transformed Rational Functions	A2.F.BF.3
12-3 Simplifying Rational	A) Simplifying Factored Rational Expressions	42 4 ADD 6
Expressions	B) Simplifying Rational Expressions After Factoring	A2.A.APR.6
12-4 Multiplying and	A) Cross Canceling	
Dividing Rational	B) Simplifying a Product of Rational Expressions	
Expressions	C) Simplifying a Quotient of Rational Expressions	
12-5 Adding and Subtracting Rational Expressions	A) Adding and Subtracting Rational Expressions with Same Denominator	
	B) Least Common Denominator of Rational Expressions	A2.F.BF.1.b
	C) Adding and Subtracting Rational Expressions with Different Denominators	
12-6 Solving Rational	A) Solving Factored Rational Equations	A2.A.CED.1,
Equations	B) Solving Rational Equations After Factoring	A2.A.REI.1, A2.A.REI.2
	A) Identifying Equations of Rational Functions	
12-7 Discontinuities in	B) Holes and Points of Discontinuity	^2 F IF 7
Rational Functions	C) Equations of Vertical Asymptotes	A2.F.IF.7
	D) Identifying Holes and Vertical Asymptotes	
12-8 Graphs of Rational Functions	A) Holes, Vertical Asymptotes, and Horizontal Asymptotes	A2.F.IF.4,
	B) Graphing and Identifying Graphs of Rational Functions	A2.F.IF.6, A2.F.IF.7,
	C) Writing and Identifying Equations of Rational Functions	A2.F.IF.9



Chapter 13 Trigonometry

Lesson	Topic	AZ Standards
13-1 Special Right Triangles	A) Side Lengths of 45°-45°-90° Triangles	G.G.SRT.6
	B) Side Lengths of 30°-60°-90° Triangles	
	C) Using Side Lengths to Find Angle Measures	
	A) Using Side Lengths of a Triangle to Write Trigonometric Ratios	G.G.SRT.6,
13-2 Trigonometric Ratios	B) Trigonometric Ratios of 30°, 45°, and 60° Angles	
Ratios	C) Trigonometric Ratios and Angle Measures	G.G.SKI./
	D) Solving Trigonometric Equations	-
	A) Degrees and Radians	
12.2 Angles of Detation	B) Angles on a Coordinate Plane	^
13-3 Angles of Rotation	C) Locating Angle Measures on a Coordinate Plane	A2.F.TF.1
	D) Drawing Angles on a Coordinate Plane	
13-4 Coterminal and	A) Coterminal Angles	42 F TF 2
Reference Angles	B) Reference Angles	A2.F.TF.2
13-5 Trigonometric Functions of All Angles	A) Using the Coordinates of a Point to Find Trigonometric Ratios	A2.F.TF.2
	B) Using Reference Angles of 30°, 45°, and 60° to Find Trigonometric Ratios	
	A) Parts of a Unit Circle	
13-6 The Unit Circle	B) Completing the Unit Circle	A2.F.TF.2
	C) Using a Unit Circle to Find Trigonometric Ratios	
42.7 B. dadis E. adis a	A) Graphs and Features of Periodic Functions	42.5.15.7
13-7 Periodic Functions	B) Graphing Periodic Functions	A2.F.IF.7
	A) Amplitudes of Sine and Cosine Functions	A2.F.IF.4,
	B) Reflections of Sine and Cosine Functions	A2.F.IF.6,
13-8 Sine and Cosine Functions	C) Periods of Sine and Cosine Functions	A2.F.IF.7,
	D) Writing the Equations of Sine and Cosine Functions	A2.F.IF.9, A2.F.TF.2,
	E) Graphing Sine and Cosine Functions	A2.F.TF.5



Chapter 13 Trigonometry (cont.)

Lesson	Торіс	AZ Standards
13-9 Tangent Functions	A) Tangent Parent Function	A2 5 15 4
	B) Vertical Dilations and Reflections of Tangent Functions	- A2.F.IF.4, A2.F.IF.6, - A2.F.IF.7,
	C) Periods of Tangent Functions	A2.F.IF.9,
-	D) Asymptotes of Tangent Functions	A2.F.BF.3,
	E) Writing the Equation of Tangent Functions	A2.F.TF.2,
	F) Graphing Tangent Functions	A2.F.TF.5
13-10 Translations of Trigonometric Functions	A) Graphs and Equations of Translated Trigonometric Functions	A2.F.IF.4, A2.F.IF.6, A2.F.IF.7,
	B) Domain and Range of Trigonometric Functions	A2.F.IF.9, A2.F.BF.3, A2.F.TF.5
13-11 Trigonometric Identities	A) The Tangent Identity	
	B) The Pythagorean Identity	A2.F.TF.8
	C) The Reciprocal Identity	



Chapter 14 Probability

Lesson	Topic	AZ Standards
14-1 Factorials and Outcomes	A) Factorials and Operations with Factorials	_
	B) Tree Diagrams	_ A1.S.CP.1
	C) Number of Outcomes for Independent and Dependent Events	, (10,0,1)
	A) Permutations	
14-2 Permutations and Combinations	B) Combinations	_
	C) Permutation and Combination from Situations	
44.25	A) Experimental Probability	_
14-3 Experimental and Theoretical Probability	B) Theoretical Probability	7.SP.7.a
	C) Making Inferences Using Probability	
	A) Probability of an And Event	
14-4 Mutually Exclusive Events	B) Probability of Mutually Exclusive Events	A2.S.CP.7
Lvenes	C) Probability of Not Mutually Exclusive Events	
	A) Independent and Dependent Events	
14-5 Independent Events	B) Tree Diagrams and Probability of Independent Events	A1.S.CP.2
	C) Compound Probability of Independent Events	
14-6 Dependent Events	A) Tree Diagrams and Probability of Dependent Events	A2.S.CP.3, A2.S.CP.5,
	B) Conditional Probability	A2.S.CP.6,
	C) Probability of Dependent Events	A2.S.CP.8
14-7 Two-Way Tables	A) Two-Way Tables and Probability	A2.S.CP.4,
	B) Relative Frequency and Probability	A2.S.CP.5,
	C) Relative Frequency and Conditional Probability	A2.S.CP.8



Chapter 15 Statistics

Lesson	Topic	AZ Standards
15-1 Measures of Center and Spread	A) Measures of Center of a Data Set	S.ID.1, S.ID.2. S.ID.3
	B) Measures of Spread of a Data Set	
	C) Shape of a Data Set	- 3.10.3
15.2 Standard Dovintion	A) Standard Deviation of a Data Set	6 10 2 6 10 2
15-2 Standard Deviation	B) Shape of a Data Set and Standard Deviation	S.ID.2. S.ID.3
	A) Population, Sample, Parameter, and Statistic	
	B) Survey, Experiment, or Observational Study	
15-3 Populations, Samples, and Bias	C) Types of Samples	S.ID.1, S.ID.3. S.ID.4
Samples, and Blas	D) Supporting Predictions and Conclusions	- 3.15.1
	E) Designing a Study	
	A) Pascal's Triangle and Binomial Expansion	
15-4 Binomial Theorem	B) Combination and Binomial Expansion	A.APR.5
	C) Binomial Theorem	
	A) Binomial Experiment	S.CP.9
15-5 Binomial Probability	B) Finding Binomial Probability	
	C) Binomial Expressions and Distribution Graphs	
15-6 Normal Distribution	A) Normal Distribution Graphs	S.ID.4
	B) Normal Distribution Graphs and the Empirical Rule	
15-7 z-Scores	A) Standard Normal Distribution and z-Scores	- S.ID.4
	B) Probability Using z-Tables	