

Chapter 1 Solving Linear Equations and Inequalities

Lesson	Topic	UT Standards
1-1 Solving Linear Equations	A) Solving Multi-Step Equations	A.CED.1 A.REI.1
	B) Solving Equations with Rational Coefficients	
Equations	C) Solving Proportions	- A.NEI.I
1-2 Solving Literal	A) Solving One-Step and Two-Step Literal Equations	A CED 4
Equations	B) Solving Multi-Step Literal Equations	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	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	A.CED.1 A.CED.3
illequalities	C) Graphing the Solution of Linear Inequalities	- A.CED.S
1-5 Solving Compound	A) Graphing Compound Inequalities	A.CED.1
Inequalities	B) Solving Compound Inequalities	A.CED.3
1-6 Solving Absolute Value Inequalities	A) Absolute Value Inequalities with Absolute Value Isolated	
	B) Solving Multi-Step Absolute Value Inequalities	A.CED.1 - A.CED.3
	C) Solving Absolute Value Inequalities with Variables on Both Sides	- A.CLD.3



Chapter 2 Linear Functions and Inequalities

Lesson	Topic	UT Standards
2-1 Interval Notation	A) Writing Interval Notation Given Graphs or Inequalities	A.CED.3
	B) Using Interval Notation to Graph	
	A) Identifying Functions	
2-2 Functions	B) Domain and Range of Discrete Functions	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	F.IF.1
	C) Evaluating and Solving Equations Written with Function Notation	F.IF.2
2-4 Linear Functions	A) Graphing Linear Functions	A.CED.2 F.IF.4
2-4 Linear Functions	B) Writing Equations of Linear Functions	F.IF.6 F.IF.9
2-5 Parallel and	A) Parallel Lines	A.CED.2 - F.IF.4
Perpendicular Lines	B) Perpendicular Lines	F.IF.6
	A) Equations and Graphs of Piecewise Functions	A.CED.2
2-6 Piecewise Functions	B) Evaluating Floor and Ceiling Functions	F.IF.4
2 of recewise runctions	C) Equations and Graphs of Floor and Ceiling Functions	F.IF.5 F.IF.7.b
	A) Graphing the Absolute Value Parent Function	
	B) Absolute Value Functions and Translations	_
2-7 Transformations of	C) Absolute Value Functions and Reflections	A.CED.2 F.IF.4
Absolute Value Functions	D) Absolute Value Functions and Dilations	_ F.IF.7.b
	E) Absolute Value Functions and Transformations	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	A.CED.3
	C) Writing Equations of Linear Inequalities	



Chapter 3 Systems of Equations and Inequalities

Lesson	Topic	UT Standards
3-1 Systems of Equations	A) Solutions of Systems of Linear Equations	- A.REI.11
with Two Variables	B) Solving Systems of Linear Equations	A.REI.II
	A) Solutions of Systems of Linear Inequalities	_
3-2 Systems of Inequalities	B) Graphing Systems of Linear Inequalities	A.CED.3
mequanties	C) Writing Systems of Linear Inequalities	
	A) Feasible Regions in Linear Programming	
3-3 Linear Programming	B) Maximum and Minimum Values of Objective Functions	A.CED.3
3-4 Substitution to Solve Systems of Equations with Three Variables	A) Solutions of Systems of Linear Equations with Three Variables	
	B) Substitution to Solve Systems of Linear Equations with Three Variables Given Values	A.REI.5 A.REI.6
	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	A.REI.5
	B) Elimination to Solve Systems of Linear Equations with Three Variables	A.REI.6



Chapter 4 Exponents and Roots

Lesson	Topic	UT Standards
4.1 Europeant Dranouties	A) Simplifying Zero and Negative Powers	A.SSE.2
	B) Product of Powers Property of Exponents	
4-1 Exponent Properties	C) Quotient of Powers Property of Exponents	A.33E.2
	D) Power Property of Exponents	
4-2 Combining Exponent	A) Product and Quotient of Powers Properties to Multiply and Divide	A CCT 2
Properties	B) Combining Power of a Product, Power of a Quotient, and Power of a Power	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	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	A.SSE.1.a
Square Roots	C) Quotients of Square Roots	
	D) Rationalizing Radical Expressions	
4. F. Dational Francisco	A) Writing nth Roots as Rational Exponents	
4-5 Rational Exponents and nth Roots	B) Writing Rational Exponents as nth Roots	A.SSE.2
	C) Evaluating Powers with Rational Exponents	
4-6 nth Roots of Integers	A) Simplifying nth Roots of Prime Factorized Numbers with Single Bases	
	B) Simplifying nth Roots of Products of Prime Factors	A.SSE.1.a
	C) Simplifying nth Roots of Integers	
4-7 nth Roots of Variable Expressions	A) Simplifying nth Roots of nth Powers	
	B) Simplifying Odd nth Roots of Single Variables	A.SSE.1.a
	C) Simplifying Even nth Roots of Single Variables	A.SSE.2
	D) Simplifying nth Roots of Variable Expressions	



Chapter 5 Polynomial Operations and Complex Numbers

Lesson	Topic	UT Standards
5-1 Adding, Subtracting, and Multiplying	A) Adding and Subtracting Polynomials	
	B) Using the Distributive Property to Multiply Polynomials	A.SSE.1.a A.SSE.2 A.APR.1
Polynomials	C) Special Products of Polynomials	F.BF.1.b
	D) Product of Multiple Polynomials	-
	A) Factoring Quadratics Whose Leading Coefficient is One	- A.SSE.1.a
5-2 Factoring Quadratics	B) Factoring Quadratics Whose Leading Coefficient is Greater Than One	A.SSE.2 A.SSE.1.a
G .	C) Factoring Quadratics Whose Leading Coefficient is Negative	A.SSE.2 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	A.SSE.1.a
Cases	C) Sum of Difference of Perfect Cubes	A.SSE.2 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	A.SSE.1.a A.SSE.2
Degree Polynomials	C) Factoring Trinomials of Degree Thee or Greater	A.APR.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	A.SSE.1.a
Division	B) Long Division of Polynomials with Remainders	A.SSE.2 A.APR.6
5-6 Synthetic Division	A) Setting Up Synthetic Division	A.SSE.1.a
	B) Different Parts of Synthetic Division	A.SSE.2
	C) Synthetic Division of Polynomials	A.APR.6
5-7 Introductions to Imaginary Numbers	A) Simplifying Powers of the Imaginary Unit	N CN 1
	B) Multiplying Expressions with Imaginary Units	N.CN.1 N.CN.2
	C) Simplifying Square Root Expressions with Negative Radicands	A.SSE.2



Chapter 5 Polynomial Operations and Complex Numbers (cont.)

Lesson	Topic	UT Standards
5-8 Operations with Complex Numbers	A) Parts of Complex Numbers	N.CN.1
	B) Adding and Subtracting Complex Numbers	N.CN.2
	C) Multiplying and Simplifying Expressions with Complex Numbers	N.CN.8 A.SSE.2
5-9 Conjugates	A) Irrational and Complex Conjugates	N.CN.2
	B) Rationalizing Using Irrational Conjugates	N.CN.3
	C) Rationalizing Using Complex Conjugates	— N.CN.8 A.SSE.2



Chapter 6 Quadratic Functions and Equations

Lesson	Topic	UT Standards
	A) Graphing the Quadratic Parent Functions	
	B) Quadratic Functions and Translations	-
6-1 Transformations of	C) Quadratic Functions and Reflections	A.CED.2
Quadratic Functions	D) Quadratic Functions and Dilations	F.IF.4
	E) Quadratic Functions and Transformations	F.BF.3
	F) Writing Equations of Transformed Quadratic Functions	
	A) Standard Form of Quadratic Functions	A.SSE.1.a
6-2 Standard Form of	B) Features of Quadratic Graphs	F.IF.4 F.IF.5
Quadratic Functions	C) Features of Quadratic Equations	F.IF.8
	D) Domain and Range of Quadratic Functions	F.IF.9
	A) Writing the Vertex Form of Quadratic Functions	A.CED.4
6-3 Vertex Form of	B) Features of Quadratic Equations in Vertex Form	F.IF.4
Quadratic Functions	C) Writing Equations of Quadratic Functions in Vertex Form	F.IF.8 F.IF.9
	A) Solutions and x-Intercepts of Quadratic Functions	A.SSE.2
6-4 Solving Quadratics by Graphing or Factoring	B) Graphing to Solve Quadratic Equations	A.APR.3 A.CED.1
Graphing or ractoring	C) Factoring to Solve Quadratic Equations	A.CED.4
6.5 Solving Quadratics by	A) Quadratic Equations with Complex Solutions	N.CN.7 A.SSE.1.a
6-5 Solving Quadratics by Completing the Square	B) Completing the Square to Solve Quadratic Equations	A.SSE.2 A.CED.1 A.CED.4
	A) Writing the Quadratic Formula	
6-6 The Quadratic	B) Solving Quadratic Equations with Real Solutions	N.CN.7 A.SSE.1.a
Formula	C) Solving Quadratic Equations with Complex Solutions	A.CED.1
_	A) Finding Discriminants	
6-7 Discriminants of Quadratic Equations	B) Solutions of Quadratic Equations and Discriminants	
	C) Number of Solutions and x-Intercepts	
6-8 Quadratic Inequalities	A) Solutions of Quadratic Inequalities	
	B) Solving Quadratic Inequalities	A.CED.1 A.CED.3
	C) Graphing Quadratic Inequalities	



Chapter 7 Polynomial Functions and Equations

Lesson	Topic	UT Standards
7-1 Factored Form	A) Zeros of Polynomial Functions in Factored Form	A.SSE.2 A.APR.3
	B) Writing the Equations of Polynomial Functions Given Zeros or Roots	
	C) Writing the Equations of Polynomial Functions in Factored Form	A.CED.4
	A) Solutions of Polynomial Equations in Factored Form	
7-2 Roots of Polynomial	B) Multiplicity of Roots	N.CN.9 A.SSE.2
Equations	C) Number of Complex Roots	A.33E.2 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	N.CN.9
and Complex Zeros	B) Roots and Factored Form of a Polynomial	A.SSE.2
7-4 Roots and the	A) Synthetic Division and Factoring	A.SSE.2
Remainder Theorem	B) Polynomial Function and the Remainder Theorem	A.APR.2
	A) Classifying Polynomial Graphs	A.APR.3
7-5 End Behavior	B) Graphs of Even and Odd Degree Functions	F.IF.4
	C) Graphs and End Behavior	F.IF.7.c
7-6 Graphs of Polynomial Functions	A) Real Roots of Polynomial Equations	A.SSE.1.a
	B) Degree of Polynomial Function and Multiplicity	A.APR.3 A.CED.2
	C) Degree of Polynomial Function Given Graph	F.IF.4 _ F.IF.5
	D) Domain and Range of Polynomial Functions	F.IF.7.c



Chapter 8 Radical Functions and Equations

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



Chapter 8 Radical Functions and Equations (cont.)

Lesson	Topic	UT Standards
8-7 Solving Equations with Rational Exponents	A) Solving Equations with Rational Exponents - Variable on One Side	A.CED.4
	B) Solving Equations with Rational Exponents - Variable on Both Sides	A.REI.2

Chapter 9 Exponential Functions and Equations

Lesson	Topic	UT Standards
	A) Using Equivalent Bases to Solve Exponential Equations	A.CED.1
9-1 Solving Exponential Equations	B) Solving Exponential Equations After Isolating	A.CED.4
Equations	C) Using Equivalent Bases and Negative Exponents to Solve Exponential Equations	A.REI.11
	A) Equations and Graphs of Exponential Functions	A.CED.2
9-2 Exponential	B) Asymptotes	F.IF.4
Functions	C) Domain and Range of Exponential Functions	F.IF.5 F.IF.7.e
	D) Graphing Exponential Functions	F.IF.8
	A) Exponential Functions and Translations	
	B) Exponential Functions and Reflections	A.CED.2
9-3 Transformations of	C) Exponential Functions and Dilations	F.IF.4 - F.IF.5
Exponential Functions	D) Exponential Functions and Transformations	F.IF.7.e
	E) Writing Equations of Transformed Exponential Functions	F.IF.8
9-4 Exponential Growth and Decay	A) Classifying Graphs and Equations as Exponential Growth or Decay	
	B) Equations of Exponential Growth or Decay	F.IF.7.e F.IF.8
	C) Writing and Evaluating Exponential Growth and Decay Equations	1.11.0



Chapter 10 Logarithms

Lesson	Topic	UT Standards
10-1 Introduction to	A) Parts of a Logarithmic Expression or Equation	- A.SSE.1.b
	B) Logarithms and Exponential Equations	A.SSE.2
Logarithms	C) Common Logarithm	F.BF.5
	D) Evaluating Logarithms with a Calculator	F.LE.4
10-2 Evaluating	A) Evaluating a Logarithm Without Rewriting the Argument or Base	A.SSE.2
Logarithms	B) Evaluating a Logarithm After Rewriting the Argument or Base	F.BF.5 F.LE.4
	A) Product Property of Logarithms	
10-3 Product and Quotient Properties of	B) Quotient Property of Logarithms	A.SSE.2 F.BF.5
Logarithms	C) Using the Product or Quotient Property of Logarithms to Approximate	F.LE.4
	A) Power Property of Logarithms	
10-4 Power Property and	B) Change of Base Formula	- A.SSE.2 - F.BF.5
Change of Base Formula	C) Using the Power Property of Logarithms to Approximate	F.LE.4
	A) Using the Property of Equality to Solve Logarithmic Equations	
10-5 Solving Basic	B) Solving Logarithmic Equations with Linear Expression in Base or Argument	A.CED.4 F.BF.5
Logarithmic Equations	C) Solving Logarithmic Equations After Isolating	F.LE.4
	D) Solving Logarithmic Equations with Logarithm in Base or Argument	
	A) Product or Quotient Properties to Solve Logarithmic Equations	
10-6 Solving Logarithmic Equations with Properties	B) Power, Product, and Quotient Properties to Solve Logarithmic Equations	A.CED.4 F.BF.5 F.LE.4
	C) Change of Base Formula to Solve Exponential Equations	- 1.66.4
10-7 Logarithmic Functions	A) Identifying Graphs and Equations of Logarithmic Functions	A.CED.2 A.REI.11 F.IF.4
	B) Domain and Range of Logarithmic Functions	F.IF.5 F.IF.7.e
	C) Graphing Logarithmic Functions	F.BF.4.a F.LE.4



Chapter 10 Logarithms (cont.)

Lesson	Topic	UT Standards
10-8 Transformations of Logarithmic Functions	A) Logarithmic Functions and Translations	A.CED.2
	B) Logarithmic Functions and Reflections	A.REI.11 F.IF.4
	C) Logarithmic Functions and Dilations	— F.IF. 4 F.IF.5
	D) Logarithmic Functions and Transformations	F.IF.7.e
	E) Writing Equations of Transformed Logarithmic Functions	F.BF.3 F.BF.4.a F.LE.4
10-9 Natural Logarithms	A) Parts of Natural Logarithm	A.SSE.1.b A.SSE.2
	B) Evaluating Natural Logarithmic Expressions	F.IF.4 F.IF.5 — F.IF.7.e
	C) Solving Natural Logarithmic Equations	F.BF.3 F.BF.4.a
	D) Graphs of Natural Logarithmic Functions	F.BF.5 F.LE.4



Chapter 11 Sequences and Series

Lesson	Topic	UT Standards
11-1 Sequences	A) Terms of a Sequence	A.SSE.1.a A.SSE.1.b
	B) Introduction to Arithmetic Sequence	
	C) Introduction to Geometric Sequence	
	D) Classifying Sequences	
11-2 Arithmetic Sequences	A) Recursive Formula of an Arithmetic Sequence	A.SSE.1.a - A.SSE.1.b
	B) Writing and Evaluating Explicit Formula of an Arithmetic Sequence	
	C) Recursive and Explicit Formulas of an Arithmetic Sequence	71.552.1.5
	A) Recursive Formula of a Geometric Sequence	
11-3 Geometric Sequences	B) Writing and Evaluating Explicit Formula of a Geometric Sequence	A.SSE.1.a A.SSE.1.b
	C) Recursive and Explicit Formulas of a Geometric Sequence	
	A) Sequence and Series	A.SSE.1.a A.SSE.1.b F.IF.10 F.IF.11
11-4 Series and Sigma Notation	B) Parts of Sigma Notation	
Notation	C) Series and Sigma Notation	
	A) Finite Series of an Arithmetic Sequence	A.SSE.1.a
11-5 Arithmetic Series	B) Writing and Finding the Partial Sum of Arithmetic Sequence or Series	A.SSE.1.b A.SSE.4.a F.IF.10 F.IF.11
	C) Finite Arithmetic Series Written in Sigma Notation	
11-6 Finite Geometric Series	A) Finite Series of a Geometric Sequence	A.SSE.4.b F.IF.10 F.IF.11
	B) Writing and Finding the Partial Sum of Geometric Sequence or Series	
	C) Finite Geometric Series Written in Sigma Notation	
11-7 Infinite Geometric Series	A) Convergent and Divergent Series	A.SSE.4.b
	B) Writing and Evaluating an Infinite Geometric Series	
	C) Infinite Geometric Series and Sigma Notation	



Chapter 12 Rational Functions and Equations

Lesson	Topic	UT Standards
12-1 Direct and Inverse Variation	A) Direct Variation	- F.IF.6
	B) Inverse Variation	
	A) Graphing the Rational Parent Function	
	B) Rational Functions and Translations	A.CED.2
12-2 Transformations of	C) Rational Functions and Reflections	A.REI.11
Rational Functions	D) Rational Functions and Dilations	F.IF.4
	E) Rational Functions and Transformations	F.IF.5 F.BF.3
	F) Writing Equations of Transformed Rational Functions	
12-3 Simplifying Rational	A) Simplifying Factored Rational Expressions	A.SSE.2
Expressions	B) Simplifying Rational Expressions After Factoring	A.APR.6 A.APR.7
12-4 Multiplying and	A) Cross Canceling	
Dividing Rational	B) Simplifying a Product of Rational Expressions	A.SSE.2 — A.APR.7
Expressions	C) Simplifying a Quotient of Rational Expressions	70.70 10.7
	A) Adding and Subtracting Rational Expressions with Same Denominator	A.SSE.1.a A.SSE.1.b A.SSE.2 A.APR.7 F.BF.1.b
12-5 Adding and Subtracting Rational Expressions	B) Least Common Denominator of Rational Expressions	
Expressions	C) Adding and Subtracting Rational Expressions with Different Denominators	
12-6 Solving Rational	A) Solving Factored Rational Equations	A.CED.1
Equations	B) Solving Rational Equations After Factoring	A.CED.4 A.REI.2
	A) Identifying Equations of Rational Functions	F.IF.7.d
12-7 Discontinuities in	B) Holes and Points of Discontinuity	
Rational Functions	C) Equations of Vertical Asymptotes	
	D) Identifying Holes and Vertical Asymptotes	
12-8 Graphs of Rational Functions	A) Holes, Vertical Asymptotes, and Horizontal Asymptotes	A.CED.2 F.IF.4 F.IF.5 F.IF.7.d
	B) Graphing and Identifying Graphs of Rational Functions	
	C) Writing and Identifying Equations of Rational Functions	



Chapter 13 Trigonometry

Lesson	Topic	UT Standards
13-1 Special Right Triangles	A) Side Lengths of 45°-45°-90° Triangles	F.TF.3
	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.SRT.6
13-2 Trigonometric	B) Trigonometric Ratios of 30°, 45°, and 60° Angles	
Ratios	C) Trigonometric Ratios and Angle Measures	G.SRT.7
	D) Solving Trigonometric Equations	
	A) Degrees and Radians	
12.2 Apples of Detailed	B) Angles on a Coordinate Plane	-
13-3 Angles of Rotation	C) Locating Angle Measures on a Coordinate Plane	F.TF.1
	D) Drawing Angles on a Coordinate Plane	-
13-4 Coterminal and	A) Coterminal Angles	5 T5 2
Reference Angles	B) Reference Angles	F.TF.2
13-5 Trigonometric	A) Using the Coordinates of a Point to Find Trigonometric Ratios	F.TF.2
Functions of All Angles	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	F.TF.2
	C) Using a Unit Circle to Find Trigonometric Ratios	
13-7 Periodic Functions	A) Graphs and Features of Periodic Functions	F.IF.5
	B) Graphing Periodic Functions	F.IF.7.e
13-8 Sine and Cosine Functions	A) Amplitudes of Sine and Cosine Functions	A.CED.2
	B) Reflections of Sine and Cosine Functions	
	C) Periods of Sine and Cosine Functions	F.IF.4
	D) Writing the Equations of Sine and Cosine Functions	F.IF.5
	E) Graphing Sine and Cosine Functions	F.IF.7.e



Chapter 13 Trigonometry (cont.)

Lesson	Topic	UT Standards
13-9 Tangent Functions	A) Tangent Parent Function	
	B) Vertical Dilations and Reflections of Tangent Functions	- A.CED.2 F.IF.4 - F.IF.5
	C) Periods of Tangent Functions	F.IF.8
	D) Asymptotes of Tangent Functions	F.BF.3
	E) Writing the Equation of Tangent Functions	F.TF.2 - F.TF.5
	F) Graphing Tangent Functions	- 1.11.5
13-10 Translations of Trigonometric Functions	A) Graphs and Equations of Translated Trigonometric Functions	A.CED.2 F.IF.4 F.IF.5
	B) Domain and Range of Trigonometric Functions	F.IF.7.e F.BF.3 F.TF.5
13-11 Trigonometric Identities	A) The Tangent Identity	
	B) The Pythagorean Identity	- A.SSE.2 - F.TF.8
	C) The Reciprocal Identity	1.11.0



Chapter 14 Probability

Lesson	Торіс	UT Standards
14-1 Factorials and Outcomes	A) Factorials and Operations with Factorials	
	B) Tree Diagrams	S.CP.1
	C) Number of Outcomes for Independent and Dependent Events	3.61.1
44.25	A) Permutations	
14-2 Permutations and Combinations	B) Combinations	S.CP.9
	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	
44444	A) Probability of an And Event	
14-4 Mutually Exclusive Events	B) Probability of Mutually Exclusive Events	S.CP.7
Events	C) Probability of Not Mutually Exclusive Events	
	A) Independent and Dependent Events	
14-5 Independent Events	B) Tree Diagrams and Probability of Independent Events	S.CP.2
	C) Compound Probability of Independent Events	
14-6 Dependent Events	A) Tree Diagrams and Probability of Dependent Events	S.CP.3 S.CP.5
	B) Conditional Probability	S.CP.6
	C) Probability of Dependent Events	S.CP.8
14-7 Two-Way Tables	A) Two-Way Tables and Probability	S.CP.4
	B) Relative Frequency and Probability	S.CP.5
	C) Relative Frequency and Conditional Probability	S.CP.8



Chapter 15 Statistics

Lesson	Topic	UT Standards
15-1 Measures of Center and Spread	A) Measures of Center of a Data Set	S.ID.1
	B) Measures of Spread of a Data Set	S.ID.2
	C) Shape of a Data Set	S.ID.3
15-2 Standard Deviation	A) Standard Deviation of a Data Set	S.ID.2
	B) Shape of a Data Set and Standard Deviation	S.ID.3
	A) Population, Sample, Parameter, and Statistic	
	B) Survey, Experiment, or Observational Study	S.IC.1
15-3 Populations, Samples, and Bias	C) Types of Samples	S.IC.3
Samples, and bias	D) Supporting Predictions and Conclusions	S.IC.4
	E) Designing a Study	
	A) Pascal's Triangle and Binomial Expansion	A.APR.5
15-4 Binomial Theorem	B) Combination and Binomial Expansion	
	C) Binomial Theorem	
15-5 Binomial Probability	A) Binomial Experiment	S.CP.9
	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	