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# Algebra 1

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## Course Description and Curriculum Map

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Telesis Preparatory Academy

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**Telesis Preparatory Academy**

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Padmaja Chava – Academic / Testing Coordinator

CURRENT COURSE INFORMATION: COURSE ID: Algebra 1 Credit Hour(s): 1  
CLASS LEVEL: High School

COURSE RESOURCES: Text: *Power Algebra 1 – Common Core Edition*  
Prentice Hall 2011  
ISBN: 978-0-13-369702-5  
Delivered through Pearson Education

ON LINE RESOURCES at: [www. poweralgebra.com](http://www.poweralgebra.com)  
Available: Interactive Digital Path with Dynamic Activities  
Lesson Planner  
Student Video Tutorials  
SEI (SPANISH) Curriculum and Resources  
Differentiated Curriculum Resources  
Ready Formative Assessment(s): Quiz / Testing  
Designing Ability for Formative Assessment

Course Description: This course is designed to instruct students on the entry- leveled focus of Algebraic Applications. Included in the study shall be the Foundations for Algebra with applications to: Solving Equations; Inequalities; and an Introduction to Functions. Building upon previous understanding of graphing, students will develop an understanding of: developing Linear Equations; finding solutions of such; matrices; and explore real-life applications. A continuation of the Real Number System shall focus on Exponents and Exponential Functions; Polynomials and Factoring in preparation for higher level courses.

**YEARLY REQUIRED ASSESSMENTS & BENCHMARKING FOR FALL/SPRING SEMESTERS:**

WEEK	WEEK / DATE	TESTING TYPE
FALL		
WEEK 1		STAR MATH
WEEK 2		GALILEO – PRE TEST
WEEK 9		GALILEO - BENCHMARK #1
WEEK 10		AIMS
WEEK 18		GALILEO – BENCHMARK #2
WEEK 19		GALILEO – POST TEST / FINAL
SPRING		
WEEK 20		GALILEO – PRE TEST
WEEK 21		STAR MATH
WEEK 26		GALILEO – BENCHMARK #1
WEEK 29/30		PARRC
WEEK 32		AIMS
WEEK 33		SAT 10 (TRAD – 9 <sup>TH</sup> )
WEEK 37		STAR MATH
WEEK 38		GALILEO POST
WEEK 39		CLASS FINAL

Note: Benchmarking standards shall be determined by Administration / Data Analysis Team and be in compliance with state requirements. These tests do not take the place of regularly scheduled quizzes or chapter exams as suggested by curriculum. Dates/ weeks provided are the scheduled time(s) for required testing per Administration guidelines. Date(s) are subject to change.

## LESSON DETAILS AND CURRICULUM MAPPING

*NOTE: Common Core Alignment indicators are based on Arizona “recoding” effective October 2013.  
(see enclosed Arizona Common Core Placemat for detailed descriptors)*

Upon completion of each topic, student will be able to demonstrate knowledge through assessment and content application of:

NOTE: “CC” – Common Core Supplemental Lessons

CB – Concept Focus Supplements

Objective	Common Core Alignments	Pacing	Date(s)
<b>CHAPTER 1: FOUNDATIONS FOR ALGEBRA</b>	<b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure of expressions. <b>NUMBER &amp; QUANTITY (NRN)</b> Use properties of rational and irrational numbers. <b>CREATING EQUATIONS (ACED)</b> Create equations that describe numbers or relationships. <b>REASONING WITH EQUATIONS &amp; INEQUALITIES (AREI)</b> Represent and solve equations and inequalities graphically.	<b>8 DAYS</b>	
1-1 VARIABLES & EXPRESSIONS	ASSE.1, ASSE.1a	½ day	
1-2 ORDER OF OPERATIONS AND EVALUATING EXPRESSIONS	ASSE.1, ASSE.1.a	½ day	
1-3 REAL NUMBERS AND THE NUMBER LINE	NRN.3	½ day	
1-4 PROPERTIES OF REAL NUMBERS	NRN.3	½ day	
1-5 ADDING AND SUBTRACTING REAL NUMBERS	ACED.3	½ day	
CONCEPT BYTE: ALWAYS, SOMETIMES, NEVER	ACED.3	½ day	
1-6 MULTIPLYING AND DIVIDING REAL NUMBERS	NRN.3	½ day	
CC1 - OPERATIONS WITH RATIONAL & IRRATIONAL NUMBERS	NRN.3	1 day	
CB 45: CLOSURE	NRN.3	½ day	
1-7 DISTRIBUTIVE PROPERTY	ASSE.1, ASSE.1.a	½ day	
1-8 INTRODUCTION TO EQUATIONS	ACED.1	1 day	
CONCEPT BYTE: USING TABLES TO SOLVE EQUATIONS	AREI.1	½ day	
1-9 PATTERNS, EQUATIONS, AND GRAPHS	ACED.2, AREI.10	½ day	

<b>CHAPTER 2: SOLVING EQUATIONS</b>	<b>CREATING EQUATIONS (ACED)</b> Create equations that describe numbers or relationships. <b>REASONING WITH EQUATIONS &amp; INEQUALITIES (AREI)</b> Understand solving equations as a process of reasoning and explain the reasoning. <b>NUMBERS AND QUANTITY (NQ)</b> Reason quantitatively and use units to solve problems.	<b>10 DAYS</b>	
CONCEPT BYTE 80: MODELING ONE STEP EQUATIONS	AREI.1	½ day	
2-1 SOLVING ONE-STEP EQUATIONS	ACED.1, AREI.3	½ day	
2-2 SOLVING TWO-STEP EQUATIONS	ACED.1, AREI.1, AREI.3	½ day	
2-3 SOLVING MULTI-STEP EQUATIONS	ACED.1, AREI.1, AREI.3	1 day	
CB 101: MODELING EQUATIONS WITH VARIABLES ON BOTH SIDES	AREI.1	½ day	
2-4 SOLVING EQUATIONS WITH VARIABLES ON BOTH SIDES	ACED.1, AREI.1, AREI.3	1 day	
2-5 LITERAL EQUATIONS AND FORMULAS	NQ.1, ACED.1, ACED.4, AREI.1, AREI.3	½ day	
CB 115: FINDING PERIMETER, AREA AND VOLUME	NQ.1	½ day	
2-6 RATIOS, RATES, AND CONVERSIONS	NQ.1, NQ.2	½ day	
2-7 SOLVING PROPORTIONS	NQ.1, ACED.1, AREI.3	½ day	
2-8 PROPORTIONS AND SIMILAR FIGURES	ACED.1, AREI.3	½ day	
2-9 PERCENTS	NQ.3	1 day	
2-10 CHANGE EXPRESSED AS A PERCENT	NQ.3	1 day	

<b>CHAPTER 3: SOLVING INEQUALITIES</b>	<b>REASONING WITH EQUATIONS &amp; INEQUALITIES (AREI)</b> Solve equations and inequalities in one variable. <b>CREATING EQUATIONS (ACED)</b> Create equations that describe numbers or relationships. <b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure of expressions.	<b>7 DAYS</b>	
3-1 INEQUALITIES AND THEIR GRAPHS	AREI.3	½ day	
3-2 SOLVING INEQUALITIES USING ADDITIONAL OR SUBTRACTION	ACED.1, AREI.3	½ day	
3-3 SOLVING INEQUALITIES USING MULTIPLICATION OR DIVISION	NQ.3, ACED.1, AREI.3	½ day	
CB 184: ALGEBRAIC PROPERTIES	AREI.3	½ day	
CB 185: MODELING MULTI-STEP INEQUALITIES	AREI.3	½ day	
3-4 SOLVING MULTISTEP INEQUALITIES	ACED.1, AREI.3	1 day	
3-5 WORKING WITH SETS	AREI.3	½ day	
3-6 COMPOUND INEQUALITIES	ACED.1, AREI.3	1 day	
3-7 ABSOLUTE VALUE EQUATIONS AND INEQUALITIES	ASSE.1, ASSE.1.b, ACED.1	1 day	
3-8 UNIONS AND INTERSECTION OF SETS	ACED.1	1 day	

<p><b>CHAPTER 4: AN INTRODUCTION TO FUNCTIONS</b></p>	<p><b>INTERPRETING FUNCTIONS (FIF)</b> Interpret functions that rise in applications in terms of context. Understand the concept of a function and use function notation.</p> <p><b>BUILDING FUNCTIONS (FBF)</b> Build a function that describes a relationship between two quantities.</p> <p><b>LINEAR, QUADRATIC, &amp; EXPONENTIAL MODELS (FLE)</b> Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p><b>REASONING WITH EQUATIONS AND INEQUALITIES (AREI)</b> Represent and solve equations and inequalities graphically. Solve systems of equations. Represent and solve equations and inequalities graphically.</p> <p><b>QUANTITIES (NQ)</b> Reason quantitatively and use units to solve problems.</p> <p><b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure of expressions.</p>	<p><b>6 DAYS</b></p>	
<p>4-1 USING GRAPHS TO RELATE TWO QUANTITIES</p>	<p>FIF.4</p>	<p>½ day</p>	
<p>4-2 PATTERNS AND LINEAR FUNCTIONS</p>	<p>AREI.10, FIF.4</p>	<p>½ day</p>	
<p>4-3 PATTERNS AND NONLINEAR FUNCTIONS</p>	<p>AREI.10, FIF.4</p>	<p>½ day</p>	
<p>4-4 GRAPHING A FUNCTION RULE</p>	<p>NQ.1, AREI.10, FIF.5</p>	<p>½ day</p>	
<p>CB: GRAPHING FUNCTIONS AND SOLVING EQUATIONS</p>	<p>AREI.11</p>	<p>½ day</p>	
<p>4-5 WRITING A FUNCTION RULE</p>	<p>NQ.2, ASSE.1, ASSE.1a, ACED.2</p>	<p>½ day</p>	
<p>4-6 FORMALIZING RELATIONS AND FUNCTIONS</p>	<p>FIF.1, FIF.2</p>	<p>½ day</p>	
<p>CC-2 ARITHMETIC SEQUENCES</p>	<p>ASSE.1, ASSE.1.a, ASSE.1.b, FIF.3, FBF.1, FBF.1.a, FBF.2, FLE.2</p>	<p>1 day</p>	

<b>CHAPTER 5: LINEAR FUNCTIONS</b>	<b>INTERPRETING FUNCTIONS (FIF)</b> Analyze functions using different representations. Interpret functions that arise in applications in terms of the context. <b>LINEAR, QUADRATIC, &amp; EXPONENTIAL MODELS (FLE)</b> Construct and compare linear, quadratic, and exponential models and solve problems. Interpret expressions for functions in terms of the situation they model. <b>NUMBERS AND QUANTITY (NQ)</b> Reason quantitatively and use units to solve problems. <b>CREATING EQUATIONS (ACED)</b> Create equations that describe numbers or relationships. <b>BUILDING FUNCTIONS (FBF)</b> Build new functions from existing functions. <b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure of expressions. <b>EXPRESSING GEOMETRIC PROPERTIES WITH EQUATIONS (GGPE)</b> Use coordinates to prove simple geometric theorems algebraically. <b>STATISTICS &amp; PROBABILITY (SID)</b> Summarize, represent, and interpret data on two categorical and quantitative variables. Interpret linear models.	<b>10 DAYS</b>	
5-1 RATE OF CHANGE AND SLOPE	FIF.6, FLE.1.b	½ day	
5-2 DIRECT VARIATION	NQ.2, ACED.2	½ day	
CONCEPT BYTE 305: INVESTIGATING Y=MX+B	FBF.3	½ day	
5-3 SLOPE-INTERCEPT FORM Y=MX+B	ASSE.1, ASSE.1.a, ASSE.2, ACED.2, FIF.4, FIF.7, FIF.7.a, FLE.5	1 day	
5-4 POINT-SLOPE FORM Y-Y <sub>1</sub> = M(X-X <sub>1</sub> )	ASSE.1, ASSE.1.a, ASSE.2, ACED.2, FIF.4, FIF.7, FIF.7.a, FBF.1, FBF.1a, FLE.2, FLE.5	1 day	
5-5 STANDARD FORM	NQ.2, ASSE.2, ACED.2, FIF.4, FIF.7, FIF.7.a, FBF.1, FBF.1.a, FLE.2, FLE.5	1 day	
CC3 INVERSE OF LINEAR FUNCTIONS	FBF.4, FBF.4.a	1 day	
CC4 A FAMILY OF LINEAR FUNCTIONS	FIF.9, FBF.3	1 day	
5-6 PARALLEL AND PERPENDICULAR LINES	GGPE.5	½ day	
5-7 SCATTER PLOTS AND TREND LINES	NQ.1, FLE.5, SID.6, SID.6.a, SID.6.c, SID.7, SID.8, SID.9	½ day	
CB 341: COLLECTING LINEAR DATA	SID.6.b	½ day	
CC6 GRAPHING ABSOLUTE VALUE FUNCTIONS	FIF.7, FIF.7.b, FBF.3	1 day	
CB 347: CHARACTERISTICS OF ABSOLUTE VALUE GRAPHS	FIF.7, FIF.7.b	½ day	

<b>CHAPTER 6: SYSTEMS OF EQUATIONS AND INEQUALITIES</b>	<b>REASONING WITH EQUATIONS &amp; INEQUALITIES (AREI)</b> Solve systems of equations. Represent and solve equations and inequalities graphically. <b>QUANTITIES (NQ)</b> Reason quantitatively and use units to solve problems. <b>CREATING EQUATIONS (ACED)</b> Create equations that describe number or relationships.	<b>8 DAYS</b>	
6-1 SOLVING SYSTEMS BY GRAPHING	AREI.6	½ day	
CB 366 SOLVING SYSTEMS USING TABLES AND GRAPHS	AREI.6	½ day	
CB 367 SOLVING SYSTEMS USING ALGEBRAIC TILES	AREI.6	½ day	
6-2 SOLVING SYSTEMS USING SUBSTITUTION	AREI.6	1 day	
6-3 SOLVING SYSTEMS USING ELIMINATION	AREI.5, AREI.6	1 day	
CB 381 MATRICES AND SOLVING SYSTEMS	AREI.6	1 day	
CC7 APPLICATIONS OF LINEAR SYSTEMS	NQ.2, NQ.3, ACED.3, AREI.6	1 day	
6-5 LINEAR INEQUALITIES	ACED.3, AREI.12	1 day	
6-6 SYSTEMS OF LINEAR INEQUALITIES	ACED.3, AREI.12	1 day	
CB 402 GRAPHING LINEAR INEQUALITIES	AREI.12	½ day	



<b>CHAPTER 7: EXPONENTS AND EXPONENTIAL FUNCTIONS</b>	<b>THE REAL NUMBER SYSTEM (NRN)</b> Extend the properties of exponents to rational exponents. <b>CREATING EQUATIONS (ACED)</b> Create equations that describe numbers or relationships. <b>FUNCTIONS (FIF)</b> Interpret functions that arise in application in terms of context. Analyze functions using different representations. Understand the concept of a function and use function notation. <b>BUILDING FUNCTIONS (FBF)</b> Build a function that models the relationship between two quantities. Build new functions from existing functions. <b>LINEAR, QUADRATIC &amp; EXPONENTIAL MODELS (FLE)</b> Construct and compare linear, quadratic and exponential models and solve problems. Interpret expressions for functions in terms of the situation they model. <b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure of expressions. Write expressions in equivalent forms to solve problems.	<b>10 DAYS</b>	
7-1 ZERO AND NEGATIVE EXPONENTS	NRN.1, NRN.2	½ day	
7-2 SCIENTIFIC NOTATION	SUPPLEMENTAL	½ day	
7-3 MULTIPLICATION POWERS WITH SAME BASE	NRN.1	1 day	
CB 432 POWERS OF POWERS AND POWERS OF PRODUCTS	NRN.1	1 day	
7-4 MULTIPLICATION PROPERTIES OF EXPONENTS	NRN.1	1 day	
CC8 USING RATIONAL EXPONENTS	NRN.1	1 day	
7-5 DIVISION PROPERTIES OF EXPONENTS	NRN.1	½ day	
CC9 RATIONAL EXPONENTS AND RADICALS	NRN.2	1 day	
7-6 EXPONENTIAL FUNCTIONS	ACED.2, FIF.4, FIF.5, FIF.7.e, FLE.2, FLE.5	½ day	
CC10 GEOMETRIC SEQUENCING	ASSE.1, ASSE.1.a, FIF.3, FBF.1, FBF.1.a, FBF.2, FLE.2	1 day	
7-7 EXPONENTIAL GROWTH AND DECAY	ASSE.1, ASSE.1.b, ASSE.3, ASSE.3.c, ACED.2, FIF.4, FIF.8, FIF.8.b, FLE.1.c, FLE.5	½ day	
CC11 FAMILIES OF EXPONENTIAL FUNCTIONS	FIF.9, FBF.3	1 day	

<b>CHAPTER 8: POLYNOMIALS AND FACTORING</b>	<b>ARITHMETIC WITH POLYNOMIALS &amp; RATIONAL EXPRESSIONS (AAPR)</b> Perform arithmetic operations on polynomials. <b>SEEING STRUCTURE IN EXPRESSIONS (ASSE)</b> Interpret the structure in expressions.	<b>10 DAYS</b>	
8-1 ADDING AND SUBTRACTING POLYNOMIALS	AAPR.1	1 day	
8-2 MULTIPLYING AND FACTORING	AAPR.1	1 day	
CB 485 USING MODELS TO MULTIPLY	AAPR.1	½ day	
8-3 MULTIPLYING BINOMIALS	AAPR.1	1 day	
8-4 MULTIPLYING SPECIAL CASES	AAPR.1	1 day	
CB 499 USING MODELS TO FACTOR	ASSE.2	½ day	
8-5 FACTORING $X^2+BX+C$	ASSE.1, ASSE.1.a	1 day	
8-6 FACTORING $AX^2+BX+C$	ASSE.1, ASSE.1.a, ASSE.1.b	1 day	
8-7 FACTORING SPECIAL CASES	ASSE.1, ASSE.1.a, ASSE.1.b, ASSE.2	1 day	
8-8 FACTORING BY GROUPING	ASSE.1, ASSE.1.a, ASSE.1.b, ASSE.2	1 day	
CC12 REWRITING EXPRESSIONS	ASSE.2	1 day	

## OBJECTIVES FOR COURSE

Objectives and standards for design and implementing of this course are based on Arizona Common Core Standards of Mathematics for the High School Level in which to provide a curriculum that encourages and enables students to be college and career ready (please see enclosed overview). The applied High school Standards and Objectives of the course are listed in conceptual categories including Number and Quantity, Algebra, Functions, Modeling, Geometry, Statistics and Probability and Contemporary Mathematics. Categories for objectives are based on such and listed as follows:

### Number and Quantity

The Real Number System (N-RN)  
Quantities (N-Q)  
The Complex Number System (N-CN)  
Vector and Matrix Quantities (N-VM)

### Geometry

Congruence (G-CO)  
Similarity, Right Triangles, and Trigonometry (G-SRT)  
Circles (G-C)  
Expressing Geometric Properties with Equations (G-GPE)  
Geometric Measurement and Dimension (G-GMD)  
Modeling with Geometry (G-MG)

### Algebra

Seeing Structure in Expressions (A-SSE)  
Arithmetic with Polynomials and Rational Expressions (A-APR)  
Creating Equations (A-CED)  
Reasoning with Equations and Inequalities (A-REI)

Contemporary Mathematics  
Discrete Mathematics (CM-DM)

### Functions

Interpreting Functions (F-IF)  
Building Functions (F-BF)  
Linear, Quadratic, and Exponential Models (F-LE)  
Trigonometric Functions (F-TF)

### Statistics and Probability

Interpreting Categorical and Quantitative Data (S-ID)  
Making Inferences and Justifying Conclusions (S-IC)  
Conditional Probability and Rules of Probability (S-CP)  
Using Probability to Make Decisions (S-MD)

### The Real Number System (N-RN)

Extend Properties of Exponents to Rational Exponents  
Use Properties of Rational and Irrational Numbers

### Quantities (N-Q)

Reason quantitatively and use units to solve problems (N-Q)

### The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers  
Represent complex numbers and their operations on the complex plane  
Use complex numbers in polynomial identities and equations

### Vector and Matrix Quantities (N-VM)

Represent and model with vector quantities  
Perform operations on vectors  
Perform operations on matrices and use matrices in applications

Student objectives are also based on the demonstration of Core Mathematical Practices (MP) as follows:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

SEE ARIZONA'S COLLEGE AND CAREER READY STANDARDS: <http://www.azed.gov/azccrs/mathstandards/> for detailed listing of standards.

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE

ALGEBRA STANDARDS

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>ALGEBRA – A-SSE</b>				
<b>A-SSE.1</b>	1-1, 1-2, 1-7, 3-7, 4-5, CC2, 5-3, 5-4, CC10, 7-7, 8-5, 8-6, 8-7, 8-8, a) 1-1, 1-2, 1- 7, 4-5, CC2, 5-3, 5-4, CC10, 7-7, 8-5, 8- 6, 8-7, 8-8, b) 3-7, CC2, 8-6, 8-7, 8- 8,		9-5, a) 9-5, b) 9-5, 5-1, 5-2, 7-1, 7-2, 7-3, a) 5-1, 5-2, 7- 1, b) 7-2,	8-4, CC7, a) 8-4, b) 8-4, CC7,
<b>A-SSE.2</b>	5-3, 5-4, 5-5, CB499, 8-7, 8-8, CC12,		5-3, 6-1, 6-2, 6-3,	8-4, CC7,
<b>A-SSE.3</b>	7-7, c) 7-7,		CC15, a) CC15, b) CC15,	
<b>A-SSE.4</b>				9-1, 9-3, CB594, 9- 5,
<b>ALGEBRA – A-APR</b>				
<b>A-APR.1</b>	CB-45, 8-1, 8-2, CB485, 8-3, 8-4,		5-2, CC1, 5-4,	
<b>A-APR.2</b>			5-4,	
<b>A-APR.3</b>			CB554, 5-2, 5-6, CC3,	
<b>A-APR.4</b>			CC2,	
<b>A-APR.5</b>			CB325, 5-7,	
<b>A-APR.6</b>			11-3, 5-4,	8-5, 8-6,
<b>A-APR.7</b>			11-1, 11-2, 11-4,	CC8, 8-6,
<b>ALGEBRA A-CED</b>				
<b>A-CED.1</b>	1-8, 2-1, 2-2, 2-3, 2-4, 2-5, 2-7, 2-8, 3-2, 3-3, 3-4, 3-6, 3-7, 3-8	7-3,	9-3, 9-4, 9-5, 9-6, 11-5,	8-6,
<b>A-CED.2</b>	1-9, 4-5, 5-2, 5-3, 5-4, 5-5, 7-6, 7-7,		9-1, 9-2, 10-5, 11- 6, 11-7, 7-1, 7-2, 7- 3, CB484,	8-1, CB506, 8-2, 8- 3,
<b>A-CED.3</b>	CC7, 6-5, 6-6,			

<b>A-CED.4</b>	2-5,		
<b>ALGEBRA A-REI</b>			
<b>A-REI.1</b>	CB80, 2-2, 2-3, CB101, 2-4, 2-5,	9-4, 9-5, <b>CB484</b>	
<b>A-REI.2</b>		10-2, 10-3, 10-4, 11-5, <b>6-5,</b>	
<b>A-REI.3</b>	2-1, 2-2, 2-3, 2-4, 2-5, 2-7, 2-8, 3-1, 3-2, 3-3, CB184, CB185, 3-4, 3-5, 3- 6,		
<b>A-REI.4</b>		9-3, 9-4, 9-5, 9-6, a) 9-3, 9-5, b) 9-3, 9-4, 9- 5,	
<b>A-REI.5</b>	6-3,		
<b>A-REI.6</b>	6-1, CB366, CB367, 6-2, 6-3, CB381, CC7,		
<b>A-REI.7</b>		9-8, CC18,	
<b>A-REI.8</b>			<b>12-4, 12-5</b>
<b>A-REI.9</b>			<b>12-4,</b>
<b>A-REI.10</b>	1-9, 4-2, 4-3, 4-4,		
<b>A-REI.11</b>	CB260,	9-8, CC18, <b>5-3, 7-5,</b>	<b>8-3, 8-6, CC9, CB449, CB550,</b>
<b>A-REI.12</b>	6-5, 6-6, CB402,		

A-SSE SEEING STRUCTURE IN EXPRESSIONS

A-APR ARITHMETIC WITH POLYNOMIALS & RATIONAL EXPRESSIONS

A-CED CREATING EQUATIONS

A-REI REASONING WITH EQUATIONS & INEQUALITIES

NOTE: **RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES**

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE

CONCEPTUAL STANDARDS – AZ GUIDED - DISCRETE

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
CM-DM.1				12-2, 12-6, SUP
CM-DM.2				12-2, 12-6, SUP
CM-DM.3				SUP
CM-DM.4				12-2, SUP

CM-DM UNDERSTAND AND APPLY VERTEX-EDGE GRAPH TOPICS

NOTE: RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES

“SUP” – Supplemental Lessons

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE

FUNCTIONS

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>FUNCTIONS – F-IF</b>				
<b>F-IF.1</b>	4-6,			
<b>F-IF.2</b>	4-6,			
<b>F-IF.3</b>	CC2, CC10,			9-2, CB578, 9-4,
<b>F-IF.4</b>	4-1, 4-2, 4-3, 5-3, 5-4, 5-5, 7-6, 7-7,		9-1, 9-2, 9-7, 11-7, a) 9-1  5-1, 5-8, CB459,	CC5, 13-1, 13-4, 13-5,
<b>F-IF.5</b>	4-4, 7-6,		9-1, 11-6, 5-8,	
<b>F-IF.6</b>	5-1,		CC14,	CC5,
<b>F-IF.7</b>	5-3, 5-4, 5-5, CC6, CB347, 7-6, a) 5-3, 5-4, 5-5, b) CB347 c) , d) , e) 7-6		9-1, 9-2, CC16, 10-5, a) 9-2 b) CC16, c) 5-1, 5-2, 5-9 d) 7-2, e) 7-2, CB477, 13-4, 13-6, 13-7 5-1, 5-2, 5-9, 6-8, 7-1, 7-2, 7-3, CB477,	CB524, 13-4, 13-5, 13-6, 13-7, 13-8, c) CB524
<b>F-IF.8</b>	7-7, a) , b) 7-7,		CC15, a) CC15, 5-9, 6-8, 7-3, CB477,	14-1,
<b>F-IF.9</b>	CC4, CC11,		CC13, CC4,	CC6,
<b>FUNCTIONS F-BF</b>				
<b>F-BF.1</b>	CC2, 5-4, 5-5, CC10, a) CC2, 5-4, 5-5, CC10,		CC17, b) CC17, 6-6  6-6,	
<b>F-BF.2</b>	CC2, CC10,			
<b>F-BF.3</b>	CB305, CC4, CC6, CC11		9-1, CC13, 5-9, CC4,	8-2, CC6,
<b>F-BF.4</b>	CC3, a) CC3		6-7, 7-3, a) 6-7,	
<b>F-BF.5</b>	7-7,			
<b>FUNCTIONS F-LE</b>				

<b>F-LE.1</b>	7-7, a) 5-1 b) , c) 7-7,	9-7,
<b>F-LE.2</b>	CC2, 5-4, 5-4, 7-6, CC10,	9-7,
<b>F-LE.3</b>		CC14, 9-7,
<b>F-LE.4</b>		7-4, 7-5, 7-6,
<b>F-LE.5</b>	5-3, 5-4, 5-5, 5-7, 7-6,	
<b>F-TF.1</b>		AL835, 13-3,
<b>F-TF.2</b>		13-2, 13-4, 13-6,
<b>F-TF.3</b>		SRT827, 13-8
<b>F-TF.4</b>		13-1, 13-2
<b>F-TF.5</b>		13-1, 13-4, CB852, 13-5, 13-6, 13-7,
<b>F-TF.6</b>		14-2,
<b>F-TF.7</b>		14-2,
<b>F-TF.8</b>		14-1
<b>F-TF.9</b>		14-6, 14-7

F-IF INTERPRETING FUNCTIONS                      F-BF BUILDING FUNCTIONS

F-LE LINEAR, QUADRATIC & EXPONENTIAL MODELS

F-TF TRIGONOMETRIC FUNCTIONS

NOTE: RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES



TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE

GEOMETRY

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>GEOMETRY G-CO</b>				
G-CO.1		1-1, 1-3, 1-4, 1-5, CC1, 3-1, 10-6		
G-CO.2		CC8, CC10, CC11, CC16, 10-6,		12-5,
G-CO.3		CC12,		
G-CO.4		CC8, CC10, CC11,		
G-CO.5		CC8, CC10, CC11,		12-5,
G-CO.6		CC8, CC10, CC11, CC14,		
G-CO.7		CC14		
G-CO.8		CC14		
G-CO.9		CB147, 3-2, 3-3, 5- 2, CB308,		
G-CO.10		3-5, 4-5, CB284, 5- 1, 5-4, 6-9,		
G-CO.11		6-2, 6-3, 6-4, 6-5, 6-6,		
G-CO.12		CB147, 3-6, 4-5, CC2,		
G-CO.13		CC2, 10-3,		
<b>GEOMETRY G-SRT</b>				
G-SRT.1		CC15, a) CC15 b) CC15		
G-SRT.2		CC17		
G-SRT.3		CC17		
G-SRT.4		7-5, 8-1,		
G-SRT.5		4-1, CB225, 4-2, 4- 3, 4-4, 4-5, 4-6, 5- 2, 5-2, CB352, 6-1, 6-2, 6-3, 6-4, 6-4, 6-6, 7-1, 7-2, 7-4, CC468, 7-5,		
G-SRT.6		CB632, 10-6, CB506,		SRT, 14-3,
G-SRT.7		CC4,		
G-SRT.8		10-1, 10-6, 8-1, 8- 2, 8-3, CB515, 8-4,		14-3,
G-SRT.9		10-5,		14-4,
G-SRT.10		CC5, CC6,		14-4, 14-5,

<b>G-SRT.11</b>	CC5, CC6,	14-4, 14-5,
<b>GEOMETRY G-C</b>		
<b>G-C.1</b>	CC18,	
<b>G-C.2</b>	12-1, 12-2, 12-3, 12-4,	
<b>G-C.3</b>	CB300, 5-3, 12-3,	
<b>G-C.4</b>	12-3,	
<b>G-C.5</b>	10-7, CC18,	

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE

GEOMETRY (2/2)

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>GEOMETRY G-GPE</b>				
<b>G-GPE.1</b>		12-5,		10-1, CB621, 10-3, 10-6,
<b>G-GPE.2</b>		CC19,		10-1, CB621, 10-2, 10-6,
<b>G-GPE.3</b>				10-1, CB621, 10-4, 10-5,
<b>G-GPE.4</b>		6-7, 6-8, 6-9,		
<b>G-GPE.5</b>	5-6,	7-4, CC3,		
<b>G-GPE.6</b>		CC1		
<b>G-GPE.7</b>		6-7, 10-1,		
<b>GEOMETRY G-GMD</b>				
<b>G-GMD.1</b>		8-3, 10-3, 11-4, 11- 5,		
<b>G-GMD.2</b>		11-2,		
<b>G-GMD.3</b>		3-6, 11-4, 11-5, 11- 6, CB741		
<b>G-GMD.4</b>		11-1, 12-6, CC20,		
<b>GEOMETRY G-MG</b>				
<b>G-MG.1</b>		REVIEW, 10-1, 10- 2, 10-5, 11-2, 11-3, 11-4, 11-5, 11-6, CC20,		
<b>G-MG.2</b>		CB741		
<b>G-MG.3</b>		CB741		

G-GPE            EXPRESSING GEOMETRIC PROPERTIES WITH EQUATIONS

G-GMD           GEOMETRIC MEASUREMENT & DIMENSION

G-MG            MODELING WITH GEOMETRY

NOTE: RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE  
NUMBER & QUANTITY

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>N&amp;Q N-RN</b>				
<b>N-RN.1</b>	7-1, 7-3, CB432, 7-4, CC8, 7-5,		6-4,	
<b>N-RN.2</b>	3-3, 7-1, CC9,		12-3, 6-4,	
<b>N-RN.3</b>	1-3, 1-4, 1-5, 1-6, CC-1			
<b>N&amp;Q N-Q</b>				
<b>N-Q.1</b>	2-5, CB115, 2-6, 2-7, 4-4, 5-7,		CB547, 12-2, 12-4,	
<b>N-Q.2</b>	2-6, 4-5, 5-2, 5-5, CC7,		CB547,	
<b>N-Q.3</b>	2-9, 2-10, CC7,		9-5, 9-6,	
<b>N&amp;Q N-CN</b>				
<b>N-CN.1</b>			4-8	
<b>N-CN.2</b>			4-8	
<b>N-CN.3</b>			4-8	
<b>N-CN.4</b>			4-8	
<b>N-CN.5</b>			4-8	
<b>N-CN.6</b>			4-8, 5-5	
<b>N-CN.7</b>			4-8, 5-5, 5-6,	
<b>N-CN.8</b>			5-5, 5-6,	
<b>N-CN.9</b>			5-6, CC2,	
<b>N&amp;Q N-VM</b>				
<b>N-VM.1</b>		8-5,		12-6,
<b>N-VM.2</b>				12-6,
<b>N-VM.3</b>				12-6,
<b>N-VM.4</b>		8-5, a) 8-5		12-6, a) 12-6, b) 12-6, c) 12-6
<b>N-VM.5</b>				12-6, a) 12-6, b) 12-6,
<b>N-VM.6</b>			12-1,	12-2, 12-5,
<b>N-VM.7</b>				12-2, 12-5,
<b>N-VM.8</b>				12-1, CB763, 12-2, 12-4,
<b>N-VM.9</b>				12-2,
<b>N-VM.10</b>				12-1, 12-3,
<b>N-VM.11</b>				12-6,

N-RN THE REAL NUMBER SYSTEM

N-Q QUANTITIES

N-CN THE COMPLEX NUMBER SYSTEM

N-VM VECTOR & MATRIX QUANTITIES

NOTE: RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES

TELESIS PREPARATORY ACADEMY  
MATH CORE CHECKLIST AND VERTICAL ALIGNMENT REFERENCE  
STATISTICS & PROBABILITY

STANDARD	ALGEBRA 1	GEOMETRY	ALGEBRA 2	ALGEBRA 3
<b>S&amp;P S-ID</b>				
S-ID.1			12-2, 12-4,	
S-ID.2			12-3, CC19, CB733, 12-4,	
S-ID.3			12-3,	
S-ID.4				11-9, CC11
S-ID.5				CB694
S-ID.6	5-7, CB341, CC5, a) 5-7, b) CB341, CC6 c) 5-7,		CB581 a) CB581  9-7	
S-ID.7	5-7,			
S-ID.8	5-7,			
S-ID.9	5-7,			
<b>S&amp;P S-IC</b>				
S-IC.1				11-7,
S-IC.2				CC12, CC13,
S-IC.3			CB740, 12-5,	11-5, 11-6, 11-7,
S-IC.4				11-7, CB724, 11-8, 11-9, CC11, CB740, CC12,
S-IC.5			CC20, CB763,	CC13,
S-IC.6				11-5, 11-6, 11-7,
<b>S&amp;P S-CP</b>				
S-CP.1			12-7,	
S-CP.2			CB771,	
S-CP.3			CB771,	
S-CP.4			12-7,	
S-CP.5			CB771,	
S-CP.6				
S-CP.7			12-8,	
S-CP.8			12-8,	
S-CP.9			12-6,	
<b>S&amp;P S-MD</b>				
S-MD.1				11-2, 11-8
S-MD.2				11-8, 11-9
S-MD.3				CB640, 11-9, CB694

S-MD.4	11-8, 11-9
S-MD.5	11-3
S-MD.6	CC10,
S-MD.7	CC10.

S-ID INTERPRETERING CATEGORICAL & QUANTITATIVE DATA  
S-IC MAKING INFERENCES & JUSTIFYING CONCLUSIONS  
S-CP CONDITIONAL PROBABILITY & THE RULES OF PROBABILITY  
S-MD USING PROBABILITY TO MAKE DECISIONS

NOTE: RED ENTRIES INDICATE BOOK 2 OF ALGEBRA SERIES