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ALGEBRA 1 SYLLABUS – 1st Semester

Please refer to this syllabus with any questions you may have. We will work through the text book pages in class. We will do all problems in a module, unless I tell you to do less because of the time remaining. Your text book is always available to you online. Just sign on to the **DentonISD SSO** and click on **MyHRW (Holt-McDougal Online)**. This will have interactive practice, videos, tutorials, and assessments for you. Please use it! In class I will be going over the Units and Modules on the backside of this paper. Please use the bottom half of this paper for notes and Big Ideas.
If you are absent, please look at the week and see what module you missed. You can watch lessons and videos on the books website. Let me know if you need more help with the content.

In this class you will be given two types of grades: major summative (60%) and minor summative (40%). There will be at least 1 minor per module and at least 1 major per unit. If you are not successful, you may relearn the material and reassess as time permits. Please ask for a *Request to Reassess* document to be eligible for reassessment.

Vocabulary – Please visit the vocabulary sets at http:// quizlet.com/Mr_Havens. You record these vocab words in your vocab booklet or on a Google doc. If you choose to do the Google doc, please share it with me (rhavens@g.dentonisd.org).

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	section	Name of Section	
	UNIT 1	**ALGEBRAIC MODELS**	**GRADE**
WEEK 1	**MODULE 1**	**Quantitative Reasoning**	
	1.1	Solving Equations	
	1.2	Modeling Quantities	
	1.3	Reporting with Precision and Accuracy	
WEEKS 1-2	**MODULE 2**	**ALGEBRAIC MODELS**	
	~~2.1~~	~~Modeling with Expressions~~	
	2.2	Creating and Solving Equations	
	2.3	Solving for a Variable	
	2.4	Creating and Solving Inequalities	
	UNIT 2	**UNDERSTANDING FUNCTIONS**	
WEEKS 3, 4, 5	**MODULE 3**	**FUNCTIONS AND MODELS**	
	3.1	Graphing Relationships	
	3.2	Understanding Relations and Functions	
	3.3	Modeling with Functions	
	3.4	Graphing Functions	
	MODULE 4	**PATTERNS AND SEQUENCES**	
	4.1	Identifying and Graphing Sequences	
	4.2	Constructing Arithmetic Sequences	
	4.3	Modeling with Arithmetic Sequences	
	UNIT 3A	**LINEAR FUNCTIONS AND EQUATIONS**	
WEEKS 6, 7, 8, 9	**MODULE 5**	**LINEAR FUNCTIONS**	
	5.1	Understanding Linear Functions	
	5.2	Using Intercepts	
	5.3	Interpreting Rate of Change and Slope	
	5.4	Direct Variation	
	MODULE 6	**Forms of Linear Equations**	
	6.1	Slope-Intercept Form	
	6.2	Point-Slope Form	
	6.3	Standard Form	
	6.4	Transforming Linear Functions	
	6.5	Comparing Properties of Linear Functions	
	UNIT 3B	**LINEAR EQUATIONS, INEQUALITIES, MODELING**	
WEEKS 10,11,12	**MODULE 7**	**Linear Equations and Inequalities**	
	7.1	Parallel and Perpendicular Lines	
	7.2	Using Functions to Solve One-Variable Equations	
	7.3	Linear Inequalities in Two Variables	
	MODULE 8	**Linear Modeling and Regression**	
	8.1	Scatter Plots and Trend Lines	
	8.2	Fitting a Linear Model to Data	
	UNIT 4	**LINEAR SYSTEMS**	
WEEKS 13, 14, 15	**MODULE 9**	**Solving Systems of Linear Equations**	
	9.1	Solving Linear Systems by Graphing	
	9.2	Solving Linear Systems by Substitution	
	9.3	Solving Linear Systems by Adding or Subtracting	
	9.4	Solving Linear Systems by Multiplying First	
	MODULE 10	**Modeling with Linear Systems**	
	10.1	Creating Systems of Linear Equations	
	10.2	Graphing Systems of Linear Inequalities	
	10.3	Modeling with Linear Systems	

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WEEKS 17,18,19,20,21,22	**UNIT 5**	**EXPONENTIAL RELATIONSHIPS**	**GRADE**
	MODULE 11	**Rational Exponents and Radicals**	
	11.1	Understanding Rational Exponents and Radicals	
	11.2	Simplifying Expressions with Rational Exponents and Radicals	
	MODULE 12	**Geometric Sequences and Exponential Functions**	
	12.1	Understanding Geometric Sequences	
	12.2	Constructing Geometric Sequences	
	12.3	Constructing Exponential Functions	
	12.4	Graphing Exponential Functions	
	MODULE 13	**Exponential Equations and Models**	
	13.1	Using Graphs and Properties to Solve Equations with Exponents	
	13.2	Modeling Exponential Growth and Decay	
	13.3	Using Exponential Regression Models	
	13.4	Comparing Linear and Exponential Models	
	UNIT 6	**POLYNOMIAL OPERATIONS**	
WEEKS 23,24,25	**MODULE 14**	**Adding and Subtracting POLYNOMIALS**	
	14.1	Understanding Polynomial Expressions	
	14.2	Adding Polynomial Expressions	
	14.3	Subtracting Polynomial Expressions	
	MODULE 15	**MULTIPLYING AND DIVIDING POLYNOMIALS**	
	15.1	Multiplying Polynomial Expressions by Monomials	
	15.2	Multiplying Polynomial Expressions	
	15.3	Special Products of Binomials	
	15.4	Dividing Polynomial Expressions	
	UNIT 7	**QUADRATIC FUNCTIONS**	
WEEKS 26,27,28	**MODULE 16**	**Graphing Quadratic Functions**	
	16.1	Understanding Quadratic Functions	
	16.2	Transforming Quadratic Functions	
	16.3	Interpreting Vertex Form and Standard Form	
	MODULE 17	**CONNECTING INTERCEPTS, ZEROS, AND FACTORS**	
	17.1	Connecting Intercepts and Zeros	
	17.2	Connecting Intercepts and Linear Factors	
	17.3	Applying the Zero Product Property to Solve Equations	
	UNIT 8	**QUADRATIC EQUATIONS AND MODELING**	
WEEKS 29,30,31,32	**MODULE 18**	**Using Factors to Solve QUADRATIC EQUATIONS**	
	18.1	Solving Equations by Factoring x 2 + bx + c	
	18.2	Solving Equations by Factoring a x 2 + bx + c	
	18.3	Using Special Factors to Solve Equations	
	MODULE 19	**USING SQUARE ROOTS TO SOLVE QUADRATIC EQUATIONS**	
	19.1	Solving Equations by Taking Square Roots	
	19.2	Solving Equations by Completing the Square	
	19.3	Using the Quadratic Formula to Solve Equations	
	19.4	Choosing a Method for Solving Quadratic Equations	
	MODULE 20	**LINEAR, EXPONENTIAL, AND QUADRATIC MODELS**	
	~~20.1~~	~~Modeling with Quadratic Functions~~	
	~~20.2~~	~~Comparing Linear, Exponential, and Quadratic Models~~	