Course Title:	**Algebra 1A-MVS**	
Michigan Common Core Standards, Mathematical Practices		
Unit 1 Big Idea:	**Introduction to Algebra**	
Essential Questions	**1. How do the properties of the real number system define and restrict how expression are evaluated?** **2. When evaluating expressions, what is the relationship between a base and the power?** **3. How do the commutative, associative, and distributive properties aid in evaluating expressions?**	
Standards	**Assignment**	**Description**
A.CED.1, A. REI.1, MP 1, MP2, MP6	1.1	Variables and Expressions
A.CED.1, A.REI.1, MP 1, MP 2, MP 6	1.2	Adding and Subtracting Real Numbers
A.CED.1, A.REI.1, MP 1, MP 2, MP3	1.3	Multiplying and Dividing Real Numbers
A.CED.1, A.REI.1, MP 2, MP 6, MP 8	1.4	Powers and Exponents
A.CED.1, A.REI.1, MP 1, MP2, MP 6	1.5	Square Roots and Real Numbers
A.CED.1, A.REI.1, MP 1, MP 2, MP 6	1.6	Order of operations
A.CED.1, A.REI.1	1.7	Simplifying Expressions
Unit 2 Big Idea	**Equalities and Inequalities**	
Essential Questions	**1. When solving, what are the way in which equations and inequalities are the same/and or different?** **2. When are absolute value equations used in life?** **3. How are compound inequalities identified and solved?**	
Standards	**Assignment**	**Description**
A.CEd.1, A.REI.1, A.REI.3	2.1	Solving Equations with Variables on Both Sides
A.CED.4, A.REI.3, N.Q.1, MP 1, MP 2, MP 3, MP 4, MP 6, MP 8	2.2	Solving Formulas for any variable.
A.CED.1, A.REI. 3, MP 1, MP 3, MP 6	2.3	Solving Absolute Value Equations
A.REI.1, A.REI.3, MP1, MP 2, MP 6	2.4	Graphing and Writing Inequalities
A.REI.3, MP 1, MP 2, MP 6	2.5	Solving Inequalities by Adding or Subtracting
A.CED.1, A.REI.3, MP 1, MP 2, MP 6	2.6	Solving Inequalities by Multiplying or Dividing

A.CED.1, A.REI.1, A. REI.3, MP 1, MP 2, MP 6	2.7	Solving two-Step and Multi-Step Inequalities
A.CED.1, A.REI.3, MP 1, MP 2, MP6	2.8	Inequalities with Variables on Both Sides
A.REI.3, MP 1, MP 2, MP 6	2.9	Solving Compound Inequalities
Unit 3 Big Idea	**Linear Functions (Introduction to Functions)**	
Essential Questions	**1. How are functions represented (both graphically and symbolically) and what is the relationship between the equations (or inequalities) and their graphs?** **2. What is the difference between a relation and a function?** **3. What are the characteristics of linear functions and graphs?** **4. What are some areas where intercepts are used?**	
Standards	**Assignment**	**Description**
F.IF.1, F.IF.4, MP 1, MP 2, MP 6	3.1	Relations and Functions
A.CED.3, FIF.2, F.LE.2, MP 1, MP 2, MP 4, MP 6	3.2	Writing Functions
A.REI.10, F.IF.1, MP 1, MP 2, MP 3, MP 5, MP 6	3.3	Graphing Functions
A.REI.10, F.IF.7, MP 1, MP 2, MP 4, MP 6	3.4	Identifying Linear Functions
A.CED.2, F.IF.7, MP 1, PM 2, PP 4, MP6	3.5	Using Intercepts
F.IF.6, MP 1, MP 2, MP 4, MP6	3.6	Rate of Change/Slope
F.IF.6, MP 1, MP 2, MP4, MP6	3.7	Slope Formula
A.CED.2, F.LE.1, F.LE.2, MP1, MP2, MP4. MP6	3.8	Direct Variation
A.CED.2, A.CED.3, F.IF.6, F.BF.1, F.LE.2, MP1, MP2, MP4, MP6	3.9	Slope-Intercept Form
A.CED.2, A.CED.3, F.IF.7, F.BF.1, MP1, MP2, MP4, MP6	3.10	Point-Slope Form
G.GPE.5, F.IF.7, MP1, MP2, MP4, MP6,	3.11	Slopes of Parallel & Perpendicular Lines

MP7		
F.BF.3, MP1, MP2, MP4, MP6, MP7	3.12	Transforming Linear Functions
F.BF.3, F.IF.7, MP1, MP2, MP4, MP3	3.13	Absolute Value Functions
Unit 4 Big Idea	**Systems of Equations and Inequalities**	
Essential Questions	**1. What are the various methods for identifying the point(s) of concurrency of systems of equations and inequalities?** **2. What is a system of equations and what does it mean to have a solution to a system?**	
Standards	**Assignment**	**Description**
A.CED.2, A.REI.3, A.REI.6, A.REI.11, MP1, MP2, MP4, MP6	4.1	Solving Systems by Graphing
A.REI.6, A.CED.3, MP1, MP2, MP6	4.2	Solving Systems by Substitution
A.CED.2, A.REI.5, A.REI.6	4.3	Solving Systems by Elimination
A.CED.2, A.CED.3, A.REI.6, MP1, MP2, MP6	4.4	Solving Special Systems
A.CED.3, A.REI.12, MP1, MP2, MP4, MP6	4.6	Solving Systems of Linear Equations
A.CED.3, MP1, MP2, MP4, MP6	4.7	Solving “3 by 3” Systems
Unit 5 Big Idea	**Bivariate Data**	
Essential Questions	**1. How can we organize bivariate data to make predictions and identify relationships?** **2. How do we use scatter plots and trend lines to predict future events?**	
S.ID.5, S.ID.6, S.ID.6a, MP1, MP2, PM4, MP6	5.1	Scatter Plots and Trend Lines