Course Title:	Algebra 26	3		
CCSS Mathematics Standards				
Unit 6 Big Idea:	Dividing and Solving Polynomials			
Essential Question	We already know the properties of 1st and 2nd degree polynomials. What about polynomials of higher degree?			
Standards	Assignment	Description		
<ul> <li>A-APR.6</li> <li>A-SSE.3a, A-APR.2,</li> <li>F-IF.7c, A-APR.3</li> <li>F-IF.7c</li> <li>A-APR.3, F-BF.3, F-IF.4, F-IF.7c,</li> </ul>	6.1	Quiz: Polynomial Division		
	6.2	Quiz: Factor and Remainder Theorem		
	6.3	Assignment: Ration Roots		
	6.4	Quiz: Solving Polynomials		
	6.5	Quiz: Graphing Polynomial Functions		
• A-APR.4	6.5	Assignment: Graph the Polynomial		
<ul><li>N-CN.9, N-CN.8</li><li>A-APR.5</li></ul>	6.6	Quiz: Polynomial Identities		
	6.7	Quiz: Fundamental Theorem of Algebra		
	6.7	Discussion: Two Questions		
	6.8	Quiz: Binomial Theorem		
	Wrap Up	Unit 6 Discussion Based Assessment		
	' '	Unit 6 MC Test		
		Unit 6 Written Test		
Halt 7 Big Idea				
Unit / Big idea	Rational Exp	ressions		
Unit 7 Big Idea Essential Question	Rational Exp			
Essential Question	How do ratio	nal functions generalize and extend what		
	How do ratio			
	How do ratio	nal functions generalize and extend what		
Essential Question	How do ration we know about functions?	nal functions generalize and extend what out rational numbers and polynomial		
Standards  • A-APR.6 • A-APR.7	How do ration we know about functions?  Assignment	nal functions generalize and extend what out rational numbers and polynomial  Description		
Essential Question  Standards  • A-APR.6  • A-APR.7  • A-APR.7	How do ration we know about functions?  Assignment 7.1	nal functions generalize and extend what out rational numbers and polynomial  Description  Quiz: Simplifying Rational Expressions		
Standards  • A-APR.6  • A-APR.7  • A-APR.7  • A-APR.6	How do ration we know about functions?  Assignment 7.1	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational		
Essential Question  Standards  A-APR.6 A-APR.7 A-APR.7 A-APR.6 F-IF.7d	How do ration we know about functions?  Assignment 7.1 7.2	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression		
Essential Question  Standards  • A-APR.6  • A-APR.7  • A-APR.7  • A-APR.6  • F-IF.7d  • F-IF.7d	How do ration we know about functions?  Assignment 7.1 7.2	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational		
Essential Question  Standards  A-APR.6 A-APR.7 A-APR.7 A-APR.6 F-IF.7d	How do ration we know about functions?  Assignment 7.1 7.2 7.3	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions		
Essential Question  Standards  A-APR.6 A-APR.7 A-APR.7 A-APR.6 F-IF.7d F-IF.7d F-IF.7d, A-	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4	Description Quiz: Simplifying Rational Expressions Quiz: Adding and Subtracting Rational Expressions Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions Quiz: Asymptotes of Rational Functions		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions Quiz: Asymptotes of Rational Functions Assignment: Graph the Rational		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5 7.6 7.6	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions Quiz: Asymptotes of Rational Functions Assignment: Graph the Rational Expressions		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5 7.6 7.6 7.7	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions Quiz: Asymptotes of Rational Functions Assignment: Graph the Rational Expressions Quiz: Solving Rational Expressions		
Essential Question  Standards	How do ration we know about functions?  Assignment 7.1 7.2 7.3 7.4 7.5 7.6 7.6 7.7 7.8	Description Quiz: Simplifying Rational Expressions Quiz: Multiplying and Dividing Rational Expression Quiz: Adding and Subtracting Rational Expressions Quiz: Simplifying Complex Fractions Quiz: Discontinuities of Rational Functions Quiz: Asymptotes of Rational Functions Assignment: Graph the Rational Expressions Quiz: Solving Rational Expressions Quiz: Applications of Rational Equations		

Unit 8 Big Idea	Exponential	and Logarithmic Functions
Essential Question	How can we describe and understand processes	
·	that grow exponentially?	
Standards	Assignment	Description
<ul> <li>A-SSE.1b, F-BF.4, F-IF.8b, F-LE.2, F-LE.4</li> <li>A-SSE.1b, F-LE.4</li> <li>F-BF.3, F-BF.4, F-IF.6, F-IF.7e,</li> </ul>	8.1	Quiz: Exponential Equations and
		Logarithmic Form
	8.2	Quiz: Properties of Logarthims
	8.3	Assignment: Graph the Exponential and
F-LE.2, F-LE.4,		Logarthimic Function
F-LE.5	8.3	Assignmetn: What is the Formula?
• A-CED.1, F-IF.8b, F-	8.4	Quiz: Compound Interest with the
LE.4		Number e
• A-CED.1, F-IF.8b, F- LE.4	8.5	Quiz: Natural Logarithms
<ul><li>F-BF.1b, F-IF.7e,</li></ul>	8.6	Quiz: Solving Exponential and Logarithmic
F-LE.4	0.7	Equations
<ul> <li>A-CED.1, A-SSE.3c,</li> </ul>	8.7	Quiz: Applications of Exponential and
F-IF.8b, F-LE.4	8.7	Logarithmic Functions
		Discussion: Population Statistics Unit 8 Discussion Based Assessment
	Wrap-Up	Unit 8 Test
		Onit o rest
	Mid-Term	Mid-Term Project
Unit 9 Big Idea	Sequences a	nd Series
Essential Question	How can we describe, predict, and work with sequences	
	of numbers that come in discrete intervals?	
Standards	Assignment	Description
• F-IF 3,	9.1	Quiz: Sequences
• F-IF 5	9.2	Quiz: Arithmetic Sequences
<ul><li>F-BF 2,</li><li>F-LE 2,</li></ul>	9.3	Quiz: Geometric Sequences
• A-SSE.3c,	9.3	Discussion: Real Life Sequences
• F-BF.1b	9.4	Quiz: Series and Sigma Notation
• A-SSE.4	9.5	Quiz: Arithmetic Series
<ul><li>F-BF 1</li><li>F-BF 2,</li><li>F-IF3</li></ul>	9.6	Quiz: Geometric Series
	9.7	Quiz: Infinite Geometric Series
	Wrap Up	Unit 9 Discussion Based Assessment
		Unit 9 Test
		Unit 9 Written Test

Unit 10 Big Idea	Trigonometric Functions		
Essential Question	How can we mathematically model phenomena that repeat cyclically?		
Standards			
• F-TF.1,	10.1	Quiz: Introduction to Unit Circles	
• F-TF.2	10.2	Quiz: Unit Circle and Coordinate Plane	
<ul> <li>S-IC.5, S-IC.6,</li> <li>S-ID.6a</li> <li>F-TF.8</li> <li>A-REI.11,</li> <li>F-IF.4,</li> </ul>	10.3	Quiz: Pythagorean Identity and Special Angles	
	10.4	Assignment: Modeling and Sketching Periodic Functions	
• F-BF.3,	10.4	Discussion: Real-Life Periodic Processes	
<ul><li>F-IF.6,</li><li>F-IF.7e,</li></ul>	10.5	Quiz: Solving Trigonometric Equations	
<ul><li>F-IF.9,</li><li>F-TF.5, F-LE.4</li></ul>	Wrap-Up	Unit 10 Discussion Based Assessment Unit 10 Test	
Unit 11 Big Idea	Probability a	and Statistics	
Essential Question		use probability and statistics to describe	
		edictions about the world?	
Standards			
• S-CP.1, S-CP.4,	11.1	Quiz: Events, Outcomes, and Sample Space	
• S-MD.6	11.2	Quiz: Compound Events and Independent	
• S-CP.2		Probabilities	
<ul><li>S-CP.3, S-CP.5,</li><li>S-CP.6, S-MD.6</li></ul>	11.3	Quiz: Conditional Probability	
• S-ID.4	11.4	Quiz: Histograms and Probability	
<ul> <li>A-CED.4, S-MD.7</li> </ul>		Distributions	
• S-IC.2	11.4	Assignment: Histograms	
• S-IC.6, S-IC.1, S-IC.3,	11.5	Quiz: Models of Population	
<ul><li>S-IC.4, S-IC.5,</li><li>S-MD.7</li></ul>	11.6	Quiz: Surveys, Experiments and Simulations	
	Wrap-Up	Unit Project: Part 1. Proposal	
	Widp op	Unit Project: Part 2. Data Collection	
		Unit Project Discussion: Part 3. Analysis	
		and Presentation	
		Unit 11 Discussion Based Assessment	
		Unit 11 Test	
	,		
	Final	Final Test	