WEB Pre-Algebra
2018-2019 Syllabus
Instructor: Becky Gore
Becky.gore1@gmail.com   (615)268-4582

Course Materials:
https://www.derekowens.com/course_info_prealgebra.php
Contact Mrs. Gore for username and password

Course Outline
PreAlgebra by Derek Owens

- **Chapter 1: Whole Numbers**
  Numbers, Place Value, Addition and Subtraction, Rounding, Estimation, Ordering, Multiplication and Division, Exponents, Order of Operations, Equations
- **Chapter 2: Integers and Introduction to Algebra**
  Operations on Integers, Variables and Expressions, Introduction to Linear Equations
- **Chapter 3: Fractions and Equations**
  Prime Numbers, Factorization, Equivalent Fractions, Multiplication and Division of Fractions, Linear Equations in One Variable
- **Chapter 4: Applications of Fractions and Equations**
  Addition and Subtraction of Fractions, Mixed Numbers, Complex Fractions, Applications of Fractions, Equations with Fractions
- **Chapter 5: Decimals**
  Place Value, Rounding, Addition and Subtraction of Decimals, Multiplication and Division of Decimals, Fractions and Decimals, Equations with Decimals, Square Roots, The Pythagorean Theorem
- **Chapter 6: Rate, Ratio, and Proportion**
  Ratios, Rates, Proportions, Similar Triangles and Proportions, Applications of Proportions, Measurement and Conversion
- **Chapter 7: Percent**
  Percents, Decimals, Fractions, Percent Problems and Proportions, Applications of Percents, Equations with Percentages, Simple and Compound Interest
- **Chapter 8: Geometry**
  Lines, Angles, Perimeter, Circumference, Area, Volume
- **Chapter 9: Graphing and Introduction to Statistics**
  Circle Graphs, Pictographs, Bar Graphs, Line Graphs, Rectangular Coordinates, Linear Equations in Two Variables, Mean, Median, Mode
- ***Chapter 9A: Functions and Linear Equations Unit***
  Coordinate Plane Review; Relations vs. Functions; Domain and Range, Equations as Functions, Graphing Linear Equations by Table, Rate of Change/Slope (from a graph), Slope Formula, Slope Applications (Rate of Change), Graphing Linear Equations by Slope Intercept Form, Standard Form, Vertical and Horizontal Lines, Linear vs. Non-Linear Equations, Slope-Intercept Form Applications
- **Chapter 10: Polynomials**
  Introduction to Polynomials, Addition and Subtraction of Polynomials, Multiplication of Polynomials

*This unit is in addition to the Derek Owens curriculum, and expands on the information presented in Chapter 9. I will give students notes pages and post videos and homework for each section of this unit via Google Classroom.

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All dates/assignments subject to change based on needs of the class.

Date	During the Week: (Before Class) Watch videos & Complete notes and practice for:	Bring to Class, Completed
8/16/18	1.1 Whole Numbers, Place Value	HW 1A
	1.2 Adding Whole Numbers	HW 1B
	1.3 Subtracting Whole Numbers:	
8/23/18	1.4 Rounding, Estimating, Ordering	HW 1C
	1.5 Multiplying Whole Numbers	HW 1D
	1.6 Dividing Whole Numbers	HW 1E
		HW 1F
8/30/18	1.7 Exponents, Order of Operations	HW 1G
		HW 1H
	1.8 Introduction to Equations	
9/6/18	Review for Chapter 1 Test (take in class on 9/6)	
	2.1 Integers	HW 2A
	2.2 Adding Integers	HW 2B
	2.3 Subtracting Integers	
9/13/18	2.4 Multiplying Integers	HW 2C
	2.5 Dividing Integers	HW 2D
	2.6 Variables and Expressions	HW 2E
	2.7 Evaluating Expressions	HW 2F
9/20/18	2.8 Simplifying Expressions	HW 2G
	2.9 Linear Equations	
	2.10 Addition Property of Equality	HW 2H
9/27/18	Review for Chapter 2 test (take in class on 9/27/18)	
	3.1 Fractions	HW 3A
	3.2 Prime Numbers	HW 3B
		HW 3C
10/4/18	3.3 Equivalent Fractions	HW 3D
	3.4 Multiplying and Dividing Fractions	HW 3E
	3.5 Multiplication Property of Equality	HW 3F
	3.6 Linear Equations	HW 3G

Date	During the Week: (Before Class) Watch videos & Complete notes and practice for:	Bring to Class, Completed
10/16/18	FALL BREAK	
10/16/18	Review for Chapter 3 test (take in class on 10/16/18)	
	4.1 Adding and Subtracting Fractions	HW 4A
		HW 4B
	4.2 Operations on Mixed Numbers	HW 4C
		HW 4D
10/25/18	4.3 Complex Fractions	HW 4E
	4.4 Applications of Fractions	HW 4F
11/1/18	4.5 Equations containing Fractions	HW 4G
	4.6 Applications of Equations	HW 4H
11/8/18	Review for Chapter 4 test (take in class on 11/8/18)	
	Review for 1st Semester Exam	Exam 1 Review
11/15/18	First Semester Exam	No homework!
11/22/18	THANKSGIVING BREAK	
11/29/18 *Begin using 2nd Semester workbook	5.1 Decimals, Place Value, Rounding	HW 5A
		HW 5B
	5.2 Adding and Subtracting Decimals	HW 5C
	5.3 Multiplying Decimals	HW 5D
12/6/18	5.4 Dividing Decimals	HW 5E
	5.5 Fractions and Decimals	HW 5F
		HW 5G
	5.6 Equations containing Decimals	HW 5H
	WINTER BREAK	
1/10/19	Review sections 5.1 – 5.6	5.1-5.6 Review
	5.7 Square Roots, The Pythagorean Theorem	HW 5I
	5.8 Applications	HW 5J
		HW 5K
1/17/19	Review for Chapter 5 test (take in class on 1/17/19)	
	6.1 Ratios	HW 6A
	6.2 Rates	HW 6B

Date	During the Week: (Before Class) Watch videos & Complete notes and practice for:	Bring to Class, Completed
1/24/19	6.3 Proportions	HW 6C
	6.4 Similar Triangles	HW 6D
1/31/19	6.5 Applications	HW 6E
	6.6 Measurement, Unit Conversion	HW 6F
2/7/19	Review for Chapter 6 test (take in class on 2/7/19)	
	7.1 Percents, Decimals, Fractions	HW 7A
	7.2 Problems involving Proportions	HW 7B
2/14/19	7.3 Applications of Percents	HW 7C
	7.4 Simple and Compound Interest	
	7.5 Applications	HW 7D
2/21/19	Review for Chapter 7 test (take in class on 2/21/19)	
	8.1 Lines and Angles	HW 8A
	8.2 Perimeter and Circumference	HW 8B
	8.3 Area and Volume	HW 8C
2/28/19	Review for Chapter 8 test (take in class on 2/28/19)	
	9.1 Circle Graphs	HW 9A
	9.2 Bar Graphs and Line Graphs	HW 9B
		HW 9C
3/7/19	9.3 Rectangular Coordinates	
	9.4 Linear Equations	HW 9D
	9.5 Mean, Median, Mode	
3/21/19	Review for Chapter 9 test (take in class on 3/21/19)	
	*Functions Unit: Rate of Change/Slope (from a graph)	HW3
	*Functions Unit: Slope Formula	HW4
3/28/19	*Functions Unit: Slope Applications (Rate of Change)	HW5
	*Functions Unit: Graphing Linear Equations by Slope Intercept Form	HW6
4/4/2019	*Functions Unit: Standard Form	HW7
	*Functions Unit: Slope-Intercept Form Applications	HW10
4/11/19	Review for test on Functions Unit (take in class on 4/11/19)	Study Guide
	10.1 Introduction to Polynomials	
	10.2 Add and Subtract Polynomials	HW 10A
4/18/19	10.3 Multiplying Exponents	HW 10B
	10.4 Multiplication with Monomials and Polynomials	HW 10C

Date	During the Week: (Before Class) Watch videos & Complete notes and practice for:	Bring to Class, Completed
	10.5 Factoring Polynomials	HW 10D
4/25/19	Review for Chapter 10 Test (take in class on 4/25/19)	
	Review for 2nd Semester Exam (We will do this in class)	
5/2/19	Second Semester Exam (taken in class on 5/2/19)	Exam 2 Review

*Functions & Linear Representations unit: (This supplemental unit is in addition to Derek Owens curriculum – I will give students notes pages and post videos and homework for each section via Google Classroom).