

Course: Senior Math Seminar
 Target Population: Classified 12th grade students
 Created by: Christina Berth, Julia Holloway
 2013

	MP 1 UNITS	MP 2 UNITS	MP 3 UNITS	MP 4 UNITS
Content:	Review of basic math skills	Review of Algebra I skills	Budgeting and Personal Finance	Real Life math for Everyday use.
Essential Questions	How do we apply mathematical principals without the use of a calculator?	1) What methods are used to solve equations and/or inequalities? 2) What method would best be used to solve a given system of equations? 3) How do you know if a given set of data is a function? Is it linear or quadratic? 4) How can a formula be used in order to find the slope of a line or the distance between two	1) What does it mean to live within our “means”? 2) What types of bank accounts exist? What are the benefits of each? 3) What are loans used for? How do you determine different types of interest? 4) What is the significance of a W-2 form and how is it used to calculate taxes and tax returns?	1) How can original recipes/plans be altered for size and/or number changes? 2) How can we determine the “best deal” in order to stay within a given budget? 3) What steps would be used in order to plan for travel expenses/vacations?

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		points?		
NJCSStandards/Strands	7.NS.A.2-3 7.RP.A.1-3	HSA-CED.A.1-3 HSA-REI.B.3-4 HSA-REI.C.5-7 HSA-REI.D.10 HSF-IF.B.3-6 HSF-IF.C.7a HSF-BF.A.1	9.2.12.A.1-2 9.2.12.A.6 9.2.12.A.9 9.2.12.B.1-3 9.2.12.B.4-8 9.2.12.B.10 9.2.12.C.1-4 9.2.12.D.12 9.2.12.E.1 9.2.12.G.1	7.NS.A.2-3 7.RP.A.1-3 9.2.12.B.6 9.2.12.B.10 9.2.12.D.2 9.2.12.E.1 9.2.12.E.3 9.2.12.G.1
Skills and Topics	<ul style="list-style-type: none"> ○ Solve problems using percents (changing percents to decimals, decimals to percent, finding a percent of a number, finding a part of a whole ○ Add, subtract, multiply and divide fractions. ○ Solve 	<ul style="list-style-type: none"> ○ Solving single and multi-step equations ○ Solving and graphing inequalities ○ Solving systems of equations ○ Solving linear functions ○ Finding the equation of a line ○ Identifying and 	<ul style="list-style-type: none"> ○ Create a personal budget based upon income ○ Study the various types of bank accounts available ○ Calculate interest and loan rates (home, automobile, student loans, personal loans, 	<ul style="list-style-type: none"> ○ Convert measurements to adjust a recipe ○ Convert measurements in order to complete a home improvement project. ○ Determine sale prices ○ Create a travel itinerary along with costs

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	<ul style="list-style-type: none"> ○ proportions ○ Multiply and divide multi-digit numbers ○ Multiplying and dividing real numbers 	<ul style="list-style-type: none"> ○ graphing Quadratic Functions ○ Using formulas to solve slope and distance. 	<ul style="list-style-type: none"> ○ credit cards) ○ Identify the properties of a W-2 form and their significance ○ Calculate taxes based on a given W-2 form. 	<ul style="list-style-type: none"> ○ associated with traveling.
Assessments:	<ul style="list-style-type: none"> ○ Warm-up activities ○ Exploratory activities ○ Student participation ○ Quizzes ○ Tests ○ District Assessments 	<ul style="list-style-type: none"> ○ Warm-up activities ○ Exploratory activities ○ Student participation ○ Quizzes ○ Tests ○ District Assessments 	<ul style="list-style-type: none"> ○ Warm-up activities ○ Exploratory activities ○ Student participation ○ Quizzes ○ Tests ○ District Assessments 	<ul style="list-style-type: none"> ○ Warm-up activities ○ Exploratory activities ○ Student participation ○ Quizzes ○ Tests ○ District Assessments
Resources:	<ul style="list-style-type: none"> ○ <i>Basic Mathematical Skills with Geometry, 7th</i> 	<ul style="list-style-type: none"> ○ <i>Algebra Concepts and Applications, Glencoe</i> 	<ul style="list-style-type: none"> ○ <i>Mathematics with Business Applications, 4th edition, Glencoe</i> 	<ul style="list-style-type: none"> ○ <i>Mathematics with Business Applications, 4th edition, Glencoe</i>

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	<p>edition, McGraw Hill, 2008</p> <ul style="list-style-type: none">○ <i>Essential Math Skills A Competency Workbook</i>, 3rd edition, Phoenix Learning Resources, 2012○ Teacher made materials○ Online resources	<p>McGraw-Hill, 2001</p> <ul style="list-style-type: none">○ <i>Introductory Algebra</i>, Pearson Addison Wesley, 8th edition, 2006○ teacher made materials○ online resources	<p>McGraw-Hill, 1998</p> <ul style="list-style-type: none">○ <i>Real-World Math</i>, PCI Education, 2012○ teacher made materials○ online resources	<p>McGraw-Hill, 1998</p> <ul style="list-style-type: none">○ <i>Real-World Math</i>, PCI Education, 2012○ teacher made materials○ online resources