

# FEMALE MATH

## Course Syllabus: Summer 2011

WEEK #	CLASS #	TOPIC	DESCRIPTION	CLASS DATE	
1*	1	Digits and Numbers	Introduction to the Real Number System	7/5	
		Place Value↓	<ul style="list-style-type: none"> <li>writing Real Numbers (using standard, expanded, exponential notations)</li> <li>evaluating (comparing and ordering) Real Numbers</li> <li>identifying significant digits in Real Numbers</li> <li>rounding Real Numbers</li> <li>multiplying &amp; dividing by powers of 10 (whole number and decimal)</li> </ul>		
	2	The Number Line	<ul style="list-style-type: none"> <li>introduction to concepts and notation</li> <li>graphing (equalities and inequalities)</li> </ul>		7/6
		Whole Numbers and Decimals	addition, subtraction, multiplication and division		
	3	3	Fractions and Mixed Numbers		<ul style="list-style-type: none"> <li>introductory exercises</li> <li>addition, subtraction, multiplication and division</li> </ul>
Using a Calculator Percents↓			<ul style="list-style-type: none"> <li>converting fractions to decimals and vice versa</li> <li>basic and complex</li> </ul>		
2‡	1	Ratios and Proportions↓	unit pricing; maps; gears & pulleys; medication dosages	7/12	
	2	Dimensional Analysis↓	<ul style="list-style-type: none"> <li>English/English</li> <li>metric/metric; English/metric; &amp; metric/English</li> </ul>	7/13	
	3	Counting Methods	permutations and combinations	7/14	
Probability and Statistics		<ul style="list-style-type: none"> <li>outcomes</li> <li>measures of central tendency &amp; dispersion</li> </ul>			
3‡	1	Measurement and Data Analysis↓	<ul style="list-style-type: none"> <li>using a ruler (English &amp; metric), protractor &amp; compass</li> <li>charts, graphs, tables, etc.</li> </ul>	7/19	
	2	Euclidean Geometry↓	points, lines, angles, planes and solids	7/20	
			formulae (perimeter, circumference, area, volume, etc.)	7/21	
3	Cartesian Geometry↓	coordinate points, slopes and equations of lines			
4‡	1	Introduction to Algebra↓	introduction to signed numbers, rules of exponents, order of operations (PEMDAS)	7/26	
			scientific notation		
	2	<ul style="list-style-type: none"> <li>manipulating and solving equations</li> <li>algebraic word problems</li> </ul>	7/27		
3	Post-Course Testing	Course Final	7/28		
Graduation (with Certificates of Completion)!!!					

\*calculators forbidden

↓reducing math-anxiety exercises

‡calculators required; will be provided