

Female Math Course Syllabus

WEEK #	TOPIC	DESCRIPTION	CLASS		
1	Set Theory	• introduction to concepts & notation	1*		
	Digits and Numbers	• the Real Number System			
	The Number Line	• introduction to concepts & notation • graphing (equalities & inequalities)			
	Place Value	• writing numbers (using standard, expanded, exponential notations) • evaluating (comparing & ordering) numbers • rounding numbers • identifying significant digits in numbers • multiplying & dividing by power-of-ten numbers (whole number & decimal) • converting decimals to fractions		2*	
Operations with Numbers ♡		• natural, whole, integer, rational, & irrational • radicals, exponents, scientific notation, & logarithms • order of operations (PEMDAS) • fractions & mixed numbers	3* 4* 5*		
		Percents ♡	• basic & complex problems		6*
		Ratios and Proportions	• maps, medications, unit pricing, gears & pulleys		7*
	3	Dimensional Analysis ♡	• conversions: English - English; metric - metric; English - metric & metric - English	8‡	
Counting Methods		• factorials, permutations, & combinations	9‡		
4	Probability and Statistics	• outcomes; measures of central tendency & dispersion	10‡		
	Data Analysis and Measurement	• tables & charts (creating/interpreting);			
	Euclidean Geometry ♡	• points, lines, angles, planes, & solids • formulae (perimeter, circumference, area, volume, etc.) using a ruler, protractor, & compass		11* 12*	
5		Cartesian Geometry	• coordinate points, formulae, & equations of lines • expressions (variable, rational & radical)	13‡ 14‡ 15‡	
	6	Algebra ♡	• polynomials (including special factors & products) • equations (solving, graphing & applied problems)	16‡ 17‡ 18‡	
			√ linear √ quadratic	19‡ 20‡	
• inequalities (linear & quadratic) • functions			21‡ 22‡		
8	Trigonometry ♡	• introductory concepts	23‡		
	Post-Course Testing	Daily Quizzes #24, Post-Course Skills Assessment, TABE 10A (Reading & Math)	24‡		

♡ reducing math-anxiety exercises

*calculators forbidden

‡calculators required; will be provided