

Female Math Course Syllabus

Week #	Class #	Topic	Description
1	1*	Introduction to Set Theory	terms, notation, operations
		Digits and Numbers	the Real Number System
		The Number Line	introduction to concepts & notation graphing (absolute value, equalities & inequalities)
	2*	Place Value	writing numbers (using standard, expanded, and exponential notations) evaluating (comparing & ordering) numbers rounding numbers
			identifying significant digits in numbers multiplying & dividing by power-of-ten numbers (whole number & decimal)
2	3*	Operations with Numbers ↓	integers, exponents, logarithms, radicals; order of operations (PEMDAS)
	4*		fractions & mixed numbers
	5 ‡	Percentages ↓	basic & complex
	6 ‡	Ratios and Proportions	maps, medications, unit pricing, gears & pulleys
	3	7 ‡	Dimensional Analysis and Scientific Notation
8 ‡		English – metric & metric – English	
9 ‡		Counting Methods Probability and Statistics	factorials, fundamental counting principle; permutation & combinations outcomes; measures of central tendency & dispersion
4	10 ‡	Data Analysis	tables & charts (creating/interpreting)
	11*	Euclidean Geometry	points, lines, angles, planes, & solids
	12*		formulae (perimeter, circumference, area, volume, etc.)
5	13*	Cartesian Geometry	Coordinate points, formulae, & equations of lines
	14*	Pre-Algebra	monomials, polynomials, special products, & factoring
	15*		rational expressions
6 & 7	(16 – 19)* (20 – 22) ‡	Algebra ↓	equations and inequalities (solving, graphing, systems, & applied problems)
	22 ‡		relations & functions
8	23 ‡	Right Angle Trigonometry ↓	ratios, identities, functions, & graphing
	24 ‡	Post-Course Testing	

*calculators forbidden

↓reducing math-anxiety exercises

‡calculators required