

FEMALE MATH

Course Syllabus: Summer/Fall 2010

WEEK #	TOPIC	DESCRIPTION	CLASS DATE
08/31/10 & 09/02/10	Orientation and Pre-Course Testing	Tests of Adult Basic Education (TABE)	
1*	Digits and Numbers	Introduction to the Real Number System	9/7
	Place Value ↓	<ul style="list-style-type: none"> writing Real Numbers (using standard, expanded, exponential notations) evaluating (comparing and ordering) Real Numbers identifying significant digits in Real Numbers rounding Real Numbers multiplying & dividing by powers of 10 (whole number and decimal) 	9/8
	The Number Line	<ul style="list-style-type: none"> introduction to concepts and notation graphing (equalities and inequalities) 	9/9
2*	Whole Numbers and Decimals	addition, subtraction, multiplication and division	9/14
	Fractions and Mixed Numbers	<ul style="list-style-type: none"> introductory exercises addition, subtraction, multiplication and division 	9/15 9/16
3‡	Using a Calculator	converting fractions to decimals and vice versa	9/21
	Percents ↓	basic and complex	
4‡	Ratios and Proportions ↓	unit pricing; maps; gears & pulleys	9/22
	Dimensional Analysis ↓	<ul style="list-style-type: none"> English/English metric/metric; English/metric; & metric/English 	9/23 9/28
5‡	Counting Methods	permutations and combinations	9/29
	Probability and Statistics	outcomes; measures of central tendency & dispersion	9/30
6‡	Measurement and Data Analysis ↓	<ul style="list-style-type: none"> using a ruler (English & metric), protractor & compass charts, graphs, tables, etc. 	10/5 10/6
	Euclidean Geometry ↓	<ul style="list-style-type: none"> points, lines, angles, planes and solids formulae (perimeter, circumference, area, volume, etc.) 	10/7 10/12 10/13
7‡	Cartesian Geometry ↓	coordinate points, slopes and equations of lines	10/14
	Introduction to Algebra ↓	<ul style="list-style-type: none"> introduction to signed numbers, rules of exponents, order of operations (PANDAS) scientific notation manipulating and solving equations algebraic word problems 	10/19 10/20 10/21 10/26
8‡	Post-Course Testing	Course Final & Tests of Adult Basic Education (TABE)	10/27 10/28

*calculators forbidden ↓reducing math-anxiety exercises

‡calculators required; will be provided