## FUNDAMENTALS OF MATHEMATICS FOR TEACHERS

## TABLE OF CONTENTS

Chapter 1: Problem Solving			
1.1	Problem Solving with Algebra	1 - 6	
Chapte	r 2. Sata Eurotions and Bassaning		
Chapter 2: Sets, Functions, and Reasoning			
2.1	Sets: Basic Terms and Set Notation	7 - 19	
2.2	Coordinate System and Graphs	20 - 32	
2.3	Functions	33 - 51	
2.4	Introduction to Inductive and Deductive Reasoning	52 - 63	
Chapter 3: Whole Numbers			
3.1	Numeration Systems	65 - 81	
3.2	Addition and Subtraction of Whole Numbers	82 - 93	
3.3	Multiplication of Whole Numbers	94 - 98	
3.4	Division and Exponents	99 - 113	
Chapter 4: Number Theory			
4.1	Factors	115 - 119	
4.2	Multiples, GCF and LCM	120 - 129	
Chapter 5: Integers and Fractions			
5.1	Integers; Addition and Subtraction	131 - 141	
5.2	Multiplication, Division, Order of Operation on Integers	142 - 148	
5.3	Introduction to Fractions	149 - 158	
5.4	Reducing, Equivalent, and Comparing Fractions	159 - 177	
5.5	Operations with Fractions	178 - 200	
Chapter 6: Decimals, Rational/Irrational Numbers			
6.1	Decimals, Place Values, Read, Write, and Rounding Decimals	201 - 215	
6.2	Operations and Decimals	216 - 240	
6.3	Fractions to Decimals, Compare Decimals	241 - 252	
6.4	Multiplication/Division by Powers of 10 and Scientific Notation	253 - 258	

6.5	Find Fraction Notation for a Ratio or a Rate	259 - 268	
6.6	Percents, Conversion to Decimals and Fractions	269 - 282	
6.7	Percent Problems using Percent Equations	283 - 298	
6.8	Rational Numbers: Identifying and Graphing	299 - 309	
6.9	Operations on Real Numbers	310 - 320	
Chapter 7: Statistics			
7.1 7.2	Reading, Interpreting and Graphing Data Sampling Methods	321 - 338 339 - 342	
Chapter	8: Probability		
8.1	Single and Multistage Experiments	343 - 359	
Chapter	9: Geometric Measurement		
9.1	Plane Figures Polygons and Tessellations	360 - 369	
9.2	Space figures	370 - 373	
9.3	Symmetric Figures	374 - 378	
Chapter 10: Measurement			
10.1	Systems of Measurement	379 - 404	
10.2	Area and Perimeter	405 - 411	
10.3	Volume and Surface Area	412 - 416	
Chapter 11: Motions in Geometry			
11.1	Constructions	417 - 446	
11.2	Congruence Mappings	447 - 463	
11.3	Similarity Mappings	463 - 468	
Ansv	vers	A.1-A.16	

