

Tentative Course Outline:

Please note that this outline is subject to change.

Topics	Reading	
Week 1		
Natural numbers	Section 1.1	Concepts 1, 2, 3, 4
Order of Operations	Section 1.2	Concepts 1, 2, 3, 4, 5
Equations	Section 2.1	Concept 1
Week 2		
Factors and Prime Numbers	Section R.2	Concepts 1, 2
Perimeter and Area of a Rectangle	Section R.3	Concepts 1, 2
Algebraic Expressions	Section 1.2	Concept 6
Solving Linear Equations - 1	Section 2.1	Concepts 2, 3, 4
Week 3		
Opposite, Absolute Value, and Order of Integers	Section 1.1	Concepts 2, 4, 5, 6
Operations with Integers	Sections 1.3, 1.4, 1.5,	
Simplifying Algebraic Expressions	Section 1.6	
Solving Linear Equations – 2	Section 2.2	Concept 1
Rectangular Coordinate System (3.1)	Section 3.1	
Perimeter and Area of a Right Triangle	Section R.3	Concepts 1, 2
Week 4		
GCF and LCM	Section R.2	
Fractions	Section R.2	
Angles	Section R.3	Concept 4
Week 5		
Percents	Section 2.5	
Graphs of Equations	Section 3.2	Concept 1
Natural Exponents	Sections 5.1, 5.2	
Week 6		
Decimals	Sections 1.3, 1.4, 1.5	
Solving Linear Equations – 2	Section 2.2	Concepts 1, 2
Applications of Linear Equations	Section 2.4	Concepts 1, 2, 3, 4 and
	Section 2.6	Concept 2
Graphing Straight Lines	Section 3.2	Concept 2
Week 7		
More Linear Equations	Section 2.2	Concept 3 and Section 2.3
Formulas	Section 2.6	
Systems of Linear Equations	Section 4.1	
Polynomials	Section 5.5	Concepts 1, 2
Week 8		
Review and Midterm Exam		
Week 9		
Solving Systems of Equations by Substitution	Section 4.2	
Addition and Subtraction of Polynomials	Section 5.5	Concepts 3, 4, 5
Multiplication of polynomials	Section 5.6	
Quadratic equations	Section 6.7	Concepts 1, 2, 3

Week 10		
Linear Inequalities	Section 2.6	
Integer Exponents	Section 5.3	
Factoring - 1: GCF and	Section 6.1	Concepts 1, 2, 3, 4
The Difference of Squares Theorem	Section 6.5	Concept 1
Week 11		
Slope of a Line	Section 3.3	
Scientific Notation	Section 5.4	
Factoring - 2: grouping	Section 6.1	Concept 5
Week 12		
Factoring - 3: the ac method	Section 6.4	
Week 13		
Applications of Slope	Section 3.3	Concept 4
Factoring – 4: the Sum and Difference of Cubes	Section 6.5	Concepts 2, 3
Applications of Quadratic Equations	Section 6.7	
Week 14		
Rational Expressions	Section 7.1	
Multiplication and Division of Rational Expressions	Section 7.2	
Week 15		
Summary of Factoring	Section 6.6	
Week 16		
Review and Final Exam		