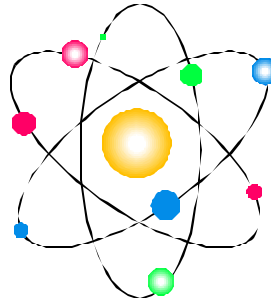


PROJECT ATOMS



Document Production Specialist (OFAD) ESSENTIAL MATHEMATICS SKILLS

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
A. (1) Whole numbers and Variable Expressions				
(1.1) Introduction to whole numbers order relation between whole numbers Place value Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#1 Place Value and Reading Tables		Passkey Lessons Whole Numbers Place Value and Reading Tables

SKILLS	TEXT	VIDEO TAPE		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(1.2) Addition and subtraction of whole numbers Addition of whole numbers Subtraction of whole numbers Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#1 Adding Whole Numbers And Perimeter #1 Subtracting Whole Numbers		Passkey Lessons Whole Numbers Adding Whole Numbers And Perimeter Subtracting Whole Numbers
(1.3) Multiplication and Division of whole Numbers Multiplication of whole numbers Exponents Division of whole numbers Factors and prime factorization Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#2 Multiplying Whole Numbers And Area #2 Dividing Whole Numbers		Passkey Lessons Whole Numbers Multiplying Whole Numbers And Area Dividing Whole Numbers
(1.4) Rounding and Estimation Rounding Estimation Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 Section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Approximation, Rounding, Estimation (MTH 107) #1 Rounding And Estimating	Approximation, Rounding, Estimation (MTH 107)	Passkey Lessons Decimals Rounding And Estimating

SKILLS	TEXT	VIDEO TAPE		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(1.5) The Order of Operations Agreement	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 1 section 5 PreAlgebra by Martin/Gay (VISIT MATH LAB)	The Order Of Operations Agreement - Whole Numbers Expressions #4 Order Of Operations	Order of Oper & $ax+b=c$	Algebra Mentor Lessons 59-67 The Order Of Operations Agreement Passkey Lessons Order Of Operations Exponents And Order Of Operations

(2) Integers				
(2.1) Introduction to integers Integers and the number line Order relations between integers Opposites Absolute value Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#3 Introduction to Integers		Introduction to Integers
(2.2) Addition and subtraction of integers Addition of integers Subtraction of integers Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Adding and Subtracting Integers #3 Adding Integers Subtracting Integers	Adding & -Int. Ordr Oper	Algebra Mentor Lessons 2-31 Addition & Subtraction of Integers Passkey Lesson M1311

SKILLS	TEXT	VIDEO TAPE		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(2.3) Multiplication and Division of integers Division of Integers Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#3 Multiplying and Dividing Integers		Passkey Lesson M1311 Multiplication & Division of Integers
(2.4) The order of operations agreement	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 2 section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Order of Operations Integers #4 Order of Operations	Adding & -Int. Ordr oper	Algebra Mentor Lessons 59-65 The Order of Operations Agreement

(3) Fractions				
(3.1) Least common multiple and greatest common factor Least common multiple (LCM) Greatest common factor (GCF) Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)			Algebra Mentor Lessons 157-160 Least Common Multiple & Greatest Common Factor Passkey Lessons Fractions
(3.2) Introduction to fractions Proper fractions, improper fractions, mixed numbers Equivalent fractions Order relations between two fractions Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Math: Fractions & Decimals (F11)	Math: Fractions & Decimals (F11)	Passkey Lessons Fractions Algebra Mentor Lessons 158-160 Introduction to fractions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(3.3) Addition and subtraction of fractions Addition of fractions Subtraction of fractions Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Addition and Subtraction of Signed Fractions Addition and Subtraction of Mixed Numbers Math: Fractions & Decimals (F11) #6 Adding And Subtracting Fractions With Least Common Denominators Adding And Subtracting Fractions With Unlike Denominators	Addition & -MXD Frac,Exp Addition & - of Sgnd Frac Math: Fractions & Decimals (F11)	Passkey Lessons Fractions Addition & Subtraction Of Fractions Adding And Subtracting Fractions With Least Common Denominators Adding And Subtracting Fractions With Unlike Denominators
(3.4) Multiplication and division of fractions Multiplication of fractions Division of fractions Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 3 section 4 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Math: Fractions & Decimals (F11) #6 Multiplying And Dividing Fractions	Math: Fractions & Decimals (F11)	Passkey Lessons Fractions Multiplication & Division Of Fractions Multiplying And Dividing Fractions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(4) Decimals and Real Numbers				
(4.1) Introduction to decimals Place value Order relations between decimals Rounding Applications	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 1 PreAlgebra by Martin/Gay (VISIT MATH LAB)	Approximation, Rounding, Estimation #7 Introduction To Decimals	Approximation, Rounding, Estimation	Passkey Lessons Decimals Introduction To Decimals
(4.2) Addition and subtraction of decimals Addition and subtraction of decimals Estimation Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 2 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#8 Adding And Subtracting Decimals		Passkey Lessons Decimals Adding And Subtracting Decimals
(4.3) Multiplication and divisions of decimals Multiplication of decimals Division of decimals Fractions and decimals Applications and formulas	PreAlgebra Text by Aufmann/Barker/Lockwood Chapter 4 section 3 PreAlgebra by Martin/Gay (VISIT MATH LAB)	#8 Multiplying Decimals And Circumference Of A Circle Dividing Decimals		Passkey Lessons Decimals Multiplication And Division Of Decimals Multiplying Decimals And Circumference Of A Circle Dividing Decimals

		VIDEO TAPE		SOFTWARE TITLE
SKILLS	TEXT	FULL TITLE	ABBREVIATION	
(5) Variable Expressions				
(5.1) Properties of real numbers Application of the properties of real numbers The distributive property		Properties of Real Numbers (Distributive Properties) #4 Simplifying Algebraic expressions	Properties, Reals Simp Eq	Properties of Real Numbers Simplifying Algebraic expressions
(5.2) Variable expressions in simplest forms Addition of like terms General variable expressions		Simplifying Variable Expressions #4 Simplifying Algebraic expressions	Properties, Reals Simp Eq	Algebra Mentor Lessons 93-106 Variable Expressions in Simplest Form Simplifying Algebraic expressions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(6) First-Degree Equations				
(6.1) Introduction to equations Solutions of an equation Equations of the form $x+a=b$ Equations of the form $ax=b$		Introduction to Solving Linear Equations-Addition prop of Equations-Multiplication property of Equations #5 Solving Linear Equations In One Variable And Problem Solving	Introduction to Lin Eq	Algebra Mentor Lessons 197-209 Passkey Lessons Equations Introduction to equations Solving Equations And Problem Solving
(6.2) First-degree equations of the form $ax+b=c$ Equations of the form $ax+b=c$ Applications		Solving Linear Equations of the Form $ax+b=c$	Order of oper & $ax+b=c$	First Degree Equations of the form $ax+b=c$ Passkey Lessons Equations
(6.3) General first-degree equations Equations for the form $ax+b=cx+d$ Equations with parentheses Applications		Solving Linear Equations in One Variable The Equalizer	Solving Linear Eq - 1 Var. The Equalizer	Passkey Lessons Equations General First Degree Equations

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(8.1) Percent Percents as decimals or fractions Fractions and decimals as percents		Converting Percent/Fractions/ Decimals #13 Percents, Decimals, and Fractions	Converting %/Frac/Dec	Percent Passkey Lessons Percents Percents, Decimals, and Fractions
(8.2) The basic percent equation The base percent equation Percent problems using proportions Applications		The Basic Percent Equation #13 Percent Equations and Problem Solving	Converting %/Frac/Dec	The Basic Percent equation Passkey Lessons Percents Percent Percent Equations and Problem Solving

B. (2) Linear Equations and Inequalities in One Variable				
(2.1) Algebraic expressions and combining like terms		Introduction to Solving Linear Equations Adding property of Equations Solving Linear Equations in One Variable	Introduction to Solv Lin Eq	First Degree Equations of the form $ax+b=c$ General First Degree Equations Passkey Lessons Equations

SKILLS	TEXT	VIDEO		SOFTWARE TITLE
		FULL TITLE	ABBREVIATION	
(2.2) The additive property of equality		Introduction to Solving Linear Equations- Addition Property Prop of Equations The Equalizer	Properties, Reals Simp EQ The Equalizer	Algebra Mentor Lessons 197-201 Introduction to Equations Passkey Lessons Equations
(2.3) The multiplicative property of equality		Introduction to Solving Linear Equations- Multiplicative Prop of Equations The Equalizer Solving Linear Equations of the Form $ax+b=c$	Introduction to Solv Lin Eq The Equalizer Order of Oper & $ax+b=c$	Algebra Mentor Lessons 197-201 Passkey Lessons Equations Introduction to Equations
(2.4) Combining properties to solve linear equations		Solving Linear Equations In One Variable The Equalizer	Solving Linear Eq- 1 Var The Equalizer	General First Degree Equations First Degree Equations of the form $ax + b = c$ Combining Properties to Solve Linear Equations Passkey Lessons Equations
(2.7) Applications of linear equations		Solving Word Problems With Linear Equations	Solving Wrđ Prob-Lin Eq	Applications of Linear Equations Passkey Lessons Word Problem

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(2.9) Linear inequalities				Passkey Lessons Inequalities Linear Inequalities

(5) Rational Expressions				
(5.1) Reducing to lowest terms		Reducing Rational Expressions to Lowest Terms	Reducing Rat Exp-Low Tms	Algebra Mentor 161-168 Reducing to the Lowest Terms Passkey Lessons Rational Expressions
(5.2) Multiplying and dividing rational expressions		Multiplication and Division of Rational Expressions	Mult & Div of Rational Expr	Algebra Mentor 169-171; 175-180 Passkey Lessons Rational Expressions Multiplying and Dividing Rational Expressions
(5.3) Addition and subtraction of rational expressions with a common denominator		Adding and Subtracting Algebraic Fractions	Adding & Subt Alg Frac	Algebra Mentor 181-184 Passkey Lessons Rational Expressions

		VIDEO TAPE		
SKILLS	TEXT	FULL TITLE	ABBREVIATION	SOFTWARE TITLE
(5.4) Addition and subtraction of rational expressions with different denominators		Adding and Subtracting Algebraic Fractions	Adding & Subt Alg Frac	Algebra Mentor 181-184 Adding and Subtracting Rational Expressions with Diff. Denominators Passkey Lessons Rational Expressions
(5.6) Fractional equations		Solving Fractional Equations	Solving Fractional Equa	Applications of Rational Equations Fractional Equations
(2) Units of Measurement and Approximate Numbers				
(2.1) Units of measurement: The Metric System				Passkey Lessons Measurement
(2.2) Reduction and conversion of units				Passkey Lessons Measurement
(6) Introduction to Geometry				
(6.1) Basic geometric figures				Passkey Lessons Geometry Introduction to Geometry
(6.2) Perimeter				Passkey Lessons Geometry
(6.3) Area				Passkey Lessons Geometry
(6.4) Volume				Passkey Lessons Geometry