

**CD 1 – Whole Numbers**

The Basic Mathematics Interactive Series is designed to incorporate all modalities of learning into one easy to use learning tool; thereby reinforcing learning by immersing students in a topic. These self-paced tutorials contain interactive problems, video instruction, lesson summaries and study guides for pencil and paper note taking and additional practice problems.

**Segments Covered:**

- **Place Value, Addition, Subtraction and Rounding.**  
This segment covers place value in the usual base ten numbering system for whole numbers. Addition and subtraction in columns, lining up place values vertically, and carrying in addition as well as borrowing in subtraction are covered. Rounding whole numbers to any place value is covered.
- **Multiplication and Order of Operations.**  
This segment covers multiplication of whole numbers. Order of operations is covered for computations involving several operations and removal of parentheses or grouping symbols.
- **Division.**  
This segment covers long division of whole numbers using the division algorithm. Simple applications are also covered.
- **Estimating.**  
This segment covers a review of rounding whole numbers as well as estimating sums, products, and quotients by rounding. Applications of estimating are also included.
- **Factors and Multiples.**  
This segment covers factoring of whole numbers and the concept of one number being a multiple of another.

**Recommended Order of Study:**

- Print the study guide pages.
- Work the pre-assessment test prior to beginning each lesson to determine skill level and understanding of the topics covered.
- Begin the video lesson as prompted based on the pre-assessment results.
- Work through the video lesson. Use the study guide as a means to take notes, follow along with worked examples, and work additional practice problems.
- Review and/or print the Objective Summaries to reinforce material covered in each lesson
- Work the Practice Problems for each Objective

The Basic Math Interactive Video Tutor is broken down into Sections and further divided into learning Objectives. Pre-assessments at the beginning of each Section contain one or two questions that gradually increase in difficulty and are designed to test knowledge of each learning Objective. Results of assessments will prescribe at which Objective students should begin study in a particular Section. As in all pre-assessments, students may not score well since they have yet to have exposure to the lesson. Objectives covered in each section are listed on the following pages.

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Once students have completed each lesson, they may review and print objective summaries which contain a written synopsis of the lesson covered. From there they may continue by working a series of follow-up questions to reinforce their knowledge of material covered. Additionally, they may work pencil and paper problems from the study guides.

**CD 1 – Whole Numbers**

**Section 1: Place Value, Addition, Subtraction, and Rounding**

**Objectives Covered:**

1. Whole Number Terms
2. Adding Whole Numbers
3. Properties of Addition
4. Adding Whole Numbers in Columns
5. Subtracting Whole Numbers
6. Addition and Subtraction Applications
7. Rounding Whole Numbers on a Number Line
8. Rounding Whole Numbers

**Key Terms:**

- OBJECTIVE 1** Whole Numbers  
Place Value  
Periods
- OBJECTIVE 2** Addend  
Sum  
Number Line
- OBJECTIVE 3** Commutative Property of Addition  
Associative Property of Addition  
Addition Property of Zero
- OBJECTIVE 4** Carrying
- OBJECTIVE 5** Minuend  
Subtrahend  
Difference
- OBJECTIVE 6** Word Problems  
Real World Examples
- OBJECTIVE 7** Rounding
- OBJECTIVE 8** Rounding

**Section 2 Multiplication and Order of Operations**

**Objectives Covered:**

1. Properties of Multiplication
2. Multiplying Whole Numbers
3. Multiplication Applications
4. Introduction to Exponents
5. The Order of Operations

**Key Terms:**

- OBJECTIVE 1** The Three Signs  
Factor  
Product  
Commutative Property of Multiplication  
Associative Property of Multiplication  
Zero Property of Multiplication
- OBJECTIVE 2** Practical Product
- OBJECTIVE 3** Area of a                      Real word Examples  
Rectangle  
Word problems      Square Units
- OBJECTIVE 4** Exponent  
Power  
Base  
Exponential Notation  
Exponential Expression  
Evaluate Squared
- OBJECTIVE 5** Order of Operations      Expressions

**CD 1 – Whole Numbers**

**Section 3 Division**

**Objectives Covered:**

1. Properties of Division
2. Long Division With and Without Remainders
3. Division Applications

**Section 4 Estimation**

**Objectives Covered:**

1. Estimating Sums
2. Estimating Products and Quotients
3. Estimation Applications

**Section 5 Factors and Multiples**

**Objectives Covered:**

1. Whole Numbers as Products of Numbers
2. Greatest Common Factor
3. Least Common Multiple

**Key Terms:**

- OBJECTIVE 1** Dividend  
Divisor  
Quotient  
Three Forms of Division  
Division Properties of 1  
Division Properties of 0
- OBJECTIVE 2** Long Division  
Remainder
- OBJECTIVE 3** Word Problems  
Real World Examples

**Key Terms:**

- OBJECTIVE 1** Estimate
- OBJECTIVE 2** Most Significant Digit
- OBJECTIVE 3** Word Problems  
Real World Examples

**Key Terms:**

- OBJECTIVE 1** Prime Number  
Prime  
Composite Number  
Prime Factorization  
Product of Primes
- OBJECTIVE 2** Greatest Common Factor (GCF)
- OBJECTIVE 3** Natural Numbers  
Multiple  
Least Common Multiple  
Prime Factors

**CD 2 – Fractions****Segments Covered:**

- **Equivalent Fractions, Lowest Terms, Comparing Fractions and Mixed Numbers.**  
This segment covers equivalence of fractions and reduction to lowest terms. Comparison of fractions and mixed numbers is also covered.
- **Multiplication and Division.**  
This segment covers multiplication of fractions as well as the use of dividing out common factors to simplify the multiplication. Division is covered via inversion of the divisor followed by multiplication.
- **Least Common Denominator, Addition and Subtraction.**  
This segment covers common denominators for pairs of fractions and addition and subtraction of fractions by first replacing fractions with equivalent fractions all having common denominators. The concept and use of least common denominators is also covered.
- **Real World Applications of Fractions.**  
This segment covers solving applications by adding, subtracting, multiplying, or dividing fractions.

**Recommended Order of Study:**

- Print the study guide pages.
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**CD 2- Fractions****Section 6 Equivalent Fractions, Lowest Terms, Comparing Fractions and Mixed Numbers****Objectives Covered:**

1. Introduction to Fractions
2. Comparing Fractions
3. Visualizing Fractions
4. Mixed Numbers and Improper Fractions

**Key Terms:**

- OBJECTIVE 1** Fraction  
Numerator  
Denominator  
Fundamental Property of Fractions  
Equivalent Fractions  
Substituted  
Lowest Terms  
Simplest Form  
Common Factors
- OBJECTIVE 2** Law of Trichotomy  
Less Than ">"  
Greater Than "<"  
Equal To "="
- OBJECTIVE 3** Equal Parts
- OBJECTIVE 4** Mixed Number  
Improper Fraction

**Section 7 Multiplication and Division****Objectives Covered:**

1. Multiplying Fractions
2. Dividing Fractions
3. Multiplying and Dividing Mixed Numbers
4. Multiplication and Division Applications of Fractions

**Key Terms:**

- OBJECTIVE 1** Canceling
- OBJECTIVE 2** Inverse Operations
- OBJECTIVE 3** Change a Mixed Number to an Improper fraction
- OBJECTIVE 4** Word Problems  
Real World Examples

**Section 8 Least Common Denominator, Addition and Subtraction****Objectives Covered:**

1. Adding and Subtracting Like Fractions
2. Adding and Subtracting Unlike Fractions
3. Addition and Subtraction Application of Fractions

**Key Terms:**

- OBJECTIVE 1** Like Fractions
- OBJECTIVE 2** Relative Size  
Common Denominator  
Least Common Denominator (LCD)
- OBJECTIVE 3** Word Problems  
Real World Examples

**CD 2 – Fractions**

**Section 9 Real World Applications of Fractions**

**Objectives Covered:**

1. Perimeter and Area
2. Fraction Applications I
3. Fraction Applications II

**Key Terms:**

OBJECTIVE 1

Area  
Distance  
Volume  
Perimeter  
Square Feet  
Word Problems  
Real World Examples  
Word Problems  
Real World Examples

OBJECTIVE 2

OBJECTIVE 3

**CD 3 – Decimals & Ratio and Proportion**

The Basic Mathematics Interactive Series is designed to incorporate all modalities of learning into one easy to use learning tool; thereby reinforcing learning by immersing students in a topic. These self-paced tutorials contain interactive problems, video instruction, lesson summaries and study guides for pencil and paper note taking and additional practice problems.

**Segments Covered:**

- **Decimals - Addition, Subtraction, Multiplication and Rounding.**

This segment covers addition and subtraction of decimals by working in columns with decimal points lined up vertically, multiplication by addition of partial products and location of the decimal point for the product. Rounding of decimal numbers is also covered.

- **Decimals – Division, Converting to Fractions.**

This segment covers long division of decimals as well as conversion from decimals to fractions and fractions to decimals.

- **Ratio and Proportion – Fundamentals of Ratios and Proportions.**

This segment covers ratio, rate and proportion. Topics included are unit rates, three ways of writing a ratio, and solving proportions by cross multiplying.

- **Ratio and Proportion – Applications of Proportions.**

This segment covers applications solved by setting up and solving proportions. The importance of like units in the numerators and like units in the denominators is stressed.

**Recommended Order of Study:**

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**CD 3 – Decimals & Ratio and Proportion**

**Section 10 Addition, Subtraction, Multiplication, and Rounding**

**Objectives Covered:**

1. Understanding Decimal Numbers
2. Adding and Subtracting Decimals
3. Multiplying Decimals
4. Rounding Decimals
5. Decimal Applications

**Section 11 Division, Converting to Fractions**

**Objectives Covered:**

1. Dividing Decimals
2. Decimal Division Applications
3. Converting Fractions to Decimals and Decimals to Fractions

**Section 12 Fundamentals of Ratios and Proportions**

**Objectives Covered:**

1. Units and Ratios
2. Rates
3. Proportions
4. Finding an Unknown in a Proportion

**Section 13 Applications of Proportions**

**Objectives Covered:**

1. Applications of Proportions I
2. Applications of Proportions II

**Key Terms:**

- OBJECTIVE 1** Whole Number  
Decimal Point  
Decimal Part
- OBJECTIVE 2** Adding Decimals  
Subtracting Decimals
- OBJECTIVE 3** Multiplying Decimals
- OBJECTIVE 4** Rounding Decimals
- OBJECTIVE 5** Word Problems  
Real World Examples

**Key Terms:**

- OBJECTIVE 1** Repeating, Non-terminating Decimals
- OBJECTIVE 2** Word Problems  
Real World Examples
- OBJECTIVE 3** Converting Steps

**Key Terms:**

- OBJECTIVE 1** Unit  
Ratio  
Complex Fractions
- OBJECTIVE 2** Rates  
Unlike Units  
Unit Rates
- OBJECTIVE 3** Proportion  
True Proportion  
Cross Multiplication
- OBJECTIVE 4** Unknown Proportion

**Key Terms:**

- OBJECTIVE 1** Word Problems  
Real World Examples
- OBJECTIVE 2** Word Problems  
Real World Examples

**CD 4 – Percent**

The Basic Mathematics Interactive Series is designed to incorporate all modalities of learning into one easy to use learning tool; thereby reinforcing learning by immersing students in a topic. These self-paced tutorials contain interactive problems, video instruction, lesson summaries and study guides for pencil and paper note taking and additional practice problems.

**Segments Covered:**

- **Converting Among Fractions, Decimals and Percents.**  
This segment covers percent, conversion of decimals to percents and percents to decimals as well as applications to everyday real problems.
- **Real World Applications of Percents**  
This segment covers the more advanced applications of percents such as in problems of interest rates on loans and savings accounts.
- **Using Percents in Everyday Situations**  
This segment is to be viewed after a study of percents. It is meant to help students become comfortable with percents as they might encounter them in real-life situations. Estimating is encouraged. Applications include discount, restaurant tips, layaways, purchasing a home, and purchasing a car.

**Recommended Order of Study:**

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**CD 4 – Percent****Section 14 Converting Among Fractions, Decimals, and Percents****Objectives Covered:**

1. The Definition of Percent
2. Percent and Decimal Conversions
3. Converting Percents to Equivalent Fractions and Mixed Numbers
4. Converting Fractions and Mixed Numbers to Percent
5. Percent Applications

**Section 15 Real World Applications of Percent****Objectives Covered:**

1. Percent Applications Using Equations
2. Percent of Increase or Decrease

**Section 16 Using Percents in Everyday Situations****Objectives Covered:**

1. Converting Common Percents of Fractions
2. Finding Percents by Moving the Decimal Point
3. Finding Percents by Multiplying or Using Common Fractions
4. Calculating 10%, 15%, & 20% of Rounded Quantities
5. Estimating Percent Discounts
6. More Percent Applications

**Key Terms:**

- OBJECTIVE 1** Percent  
Diagram
- OBJECTIVE 2** Decimal Conversions
- OBJECTIVE 3** Fraction Conversions
- OBJECTIVE 4** Percent Conversions
- OBJECTIVE 5** Word Problems  
Real World Examples

**Key Terms:**

- OBJECTIVE 1** Word Problems  
Real World Examples
- OBJECTIVE 2** Percent of Increase  
Percent of Decrease

**Key Terms:**

- OBJECTIVE 1** Percent
- OBJECTIVE 2** Percent  
Decimal Point
- OBJECTIVE 3** Base  
Percentage
- OBJECTIVE 4** Estimate  
Rounding
- OBJECTIVE 5** Percent Discount
- OBJECTIVE 6** Word Problems  
Real World Examples

**CD 5 – Measurement**

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**Segments Covered:**

- **U.S. Customary System.**  
This segment covers units of length, capacity, and weight in the U.S. Customary System. Converting from one unit of measurement to another by unit fractions is included. An example of adding lengths is shown as well as an application.
- **Metric System.**  
This segment covers units of length, capacity, and mass in the Metric System. Converting from one unit of measurement to another by unit fractions is included as well as converting by using a table.
- **Customary and Metric System Conversions.**  
This segment covers converting between the Metric System and the U.S. Customary System. A large portion of this tape segment is devoted to converting through estimation.

**Recommended Order of Study:**

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**CD 5 – Measurement**

**Section 17 U.S. Customary System**

**Objectives Covered:**

1. Length, Capacity, and Weight
2. Unit Fractions
3. Adding and Subtracting Customary Units

**Key Terms:**

- OBJECTIVE 1** Length  
Equivalent Method  
Capacity  
Weight  
Replacement
- OBJECTIVE 2** Unit Fractions
- OBJECTIVE 3** Customary Units  
Unit Fractions

**Section 18 Metric System**

**Objectives Covered:**

1. The Metric Prefixes and Metric Unit Fractions
2. Using a Table to Convert Metric Units

**Key Terms:**

- OBJECTIVE 1**
- |          |        |
|----------|--------|
| Mass     | Gram   |
| Capacity | Length |
| Kilo-    | Hecto- |
| Deca-    | Unit   |
| Deci     | Centi- |
| Milli-   | Weight |
| Meter    | Liter  |
- OBJECTIVE 2**
- |          |       |
|----------|-------|
| Capacity | Liter |
| Mass     | Gram  |

**Section 19 Customary and Metric System Conversions**

**Objectives Covered:**

1. Units of Capacity
2. Units of Length
3. Units of Mass

**Key Terms:**

- OBJECTIVE 1** Capacity
- OBJECTIVE 2** Length
- OBJECTIVE 3** Weight

**CD 6 – Geometry & Statistics and  
Probability**



**Segments Covered:**

- **Geometry - Lines, Angles and Triangles.**  
This segment covers definitions and classifications of basic geometric terms including line segments, rays and right, acute, straight, and obtuse angles. The Pythagorean Theorem is introduced to find the unknown side of a right triangle. The concept of similar, congruent and perfect triangles is also covered.
- **Geometry - Perimeter, Area and Volume.**  
This segment covers methods of computing perimeter and area for elementary geometric figures such as squares, triangles, rectangles parallelograms, circles and trapezoids.
- **Statistics - Charts and Graphs.**  
This segment introduces statistics and how it is used to describe the results of events using various graphing techniques including pictographs, bar graphs, line graphs, circle graphs and histograms.
- **Statistics - Mean, Median, Mode and Organizing Data.**  
This segment explores ways to use statistics to organize data numerically including mean, median, mode and range. Techniques to organize data visually including stem-and-leaf plots, box-and-whisker plots and scatter plots are also introduced.
- **Probability - Introduction to Probability.**  
This segment introduces using probability as a means to predict outcomes. Tree Diagrams and other practical applications of using probability to predict outcomes numerically are discussed.

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- Review and/or print the Objective Summaries to reinforce material covered in each lesson
- Work the Practice Problems for each Objective

**CD 6 – Geometry & Statistics and  
Probability**

**Section 20 Lines, Angles and Triangles**

**Objectives Covered:**

1. Geometry Terms
2. Angles and Triangles
3. Right Triangles
4. Similar Triangles and Applications

**Key Terms:**

**OBJECTIVE 1**

Point	Line Segment	Angle
Vertical Angles	Perpendicular Lines	Line
Ray	Vertex	Parallel

**OBJECTIVE 2**

Right Angle	Acute Angle
Straight Angle	Degrees
Obtuse Angle	Triangle

**OBJECTIVE 3**

Right Triangle	Perfect Triples
Pythagorean Theorem	Hypotenuse

**OBJECTIVE 4**

Congruent Triangles	Ratio
Similar Triangles	Diagram
Proportion	Cross Products

**Section 21 Perimeter, Area, and Volume**

**Objectives Covered:**

1. Perimeter and Circumference
2. Area
3. Volume

**Key Terms:**

**OBJECTIVE 1**

Perimeter	Parallelogram	Rectangle
Circumference	Triangle	Trapezoid
$\pi$	Circle	Center

**OBJECTIVE 2**

Square Units	Length
Width	Height
Base	

**OBJECTIVE 3**

Rectangular Solid	Cube
Sphere	Cone
Right Circular Cone	Radius

**Section 22 Charts and Graphs**

**Objectives Covered:**

1. Pictographs, Bar Graphs and Line Graphs
2. Circle Graphs
3. Histograms

**Key Terms:**

**OBJECTIVE 1**

Statistics	Pictograph
Data	Vertical Bar Graph
Descriptive Statistics	Horizontal Bar Graph
Predictive Statistics	Categories
Experiments	Scale
Outcomes	Line Graphs

**OBJECTIVE 2**

Circle Graphs	Pie Charts	Sector
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**OBJECTIVE 3**

Histogram	Classes
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**CD 6 - Geometry & Statistics  
and Probability**

**Section 23 Mean, Median, Mode, and  
Organizing Data**

**Objectives Covered:**

1. Mean, Median, Mode, and Range
2. Stem-and-Leaf Plots and  
Box-and-Whisker Plots
3. Scatterplots

**Key Terms:**

- OBJECTIVE 1** Mean  
Median  
Mode  
Central Tendency  
Weighted Measurements  
Range  
Dispersion
- OBJECTIVE 2** Stem-and-Leaf Plots  
Key  
Legend  
Box-and-Whisker Plots  
Lower Quartile  
Upper Quartile
- OBJECTIVE 3** Scatterplots  
Correlation  
Negative Correlation  
Positive Correlation

**Section 24 Introduction to Probability**

**Objectives Covered:**

1. Tree Diagrams
2. Probability

**Key Terms:**

- OBJECTIVE 1** Experiment  
Outcome  
Sample Space  
Tree Diagrams  
Root  
Branches  
Compound Experiment
- OBJECTIVE 2** Probability  
Counting Principle

**CD 7 – Signed Numbers & Exponents**



**Segments Covered:**

- **Signed Numbers - Operations on Signed Numbers.**  
This segment covers the notion of negative numbers as well as rules for signs in addition, subtraction, multiplication and division of numbers.
- **Signed Numbers - The Order of Operations and Signed Numbers.**  
This segment covers Order of operations. Some examples include exponents.
- **Exponents - Using Exponents.**  
This segment covers the computation of numerical expressions involving whole number exponents as well as the elementary rules of exponents.
- **Exponents - Exponent Rules and Radicals.**  
This segment covers the basic notions of roots and radicals and their relations to whole number exponents.

Work the Practice Problems for each Objective

**CD 7 – Signed Numbers & Exponents****Section 25 Operations on Signed Numbers****Objectives Covered:**

1. Adding Signed Numbers
2. Subtracting Signed Numbers
3. Multiplying Signed Numbers
4. Dividing Signed Numbers

**Key Terms:**

- OBJECTIVE 1** Signed Numbers  
Absolute Value  
Opposites
- OBJECTIVE 2** Negative  
Positive
- OBJECTIVE 3** Signed Number
- OBJECTIVE 4** Inverse Operations

**Section 26 The Order of Operations and Signed Numbers****Objectives Covered:**

1. Order of Operations I
2. Order of Operations II
3. Order of Operations III

**Key Terms:**

- OBJECTIVE 1** Order of Operations
- OBJECTIVE 2** Order of Operations
- OBJECTIVE 3** Order of Operations

**Section 27 Using Exponents****Objectives Covered:**

1. Evaluating Exponential Expressions with Signed Numbers
2. The Product Rule of Exponents I
3. The Product Rule of Exponents II
4. The Quotient Rule of Exponents
5. Zero Exponents

**Key Terms:**

- OBJECTIVE 1** Base  
Power
- OBJECTIVE 2** Natural Numbers
- OBJECTIVE 3** Product Rule of Exponents
- OBJECTIVE 4** Quotient Rule of Exponents
- OBJECTIVE 5** Zero Exponent Rule

**Section 28 Exponent Rules and Radicals****Objectives Covered:**

1. The Power Rule for Exponents
2. The Power Rule for Products
3. The Power Rule for Quotients
4. Square Roots and Radical Notation
5. Higher Order Roots and Radical Notation

**Key Terms:**

- OBJECTIVE 1** The Power Rule For Exponents
- OBJECTIVE 2** The Power Rule for Products
- OBJECTIVE 3** The Poer Rule for Quotients
- OBJECTIVE 4** Principal Square Root  
Square Root  
Imaginary Numbers  
Radical
- OBJECTIVE 5** Cube Root  
Radical Notation

**CD 8 – Introduction to Algebra**

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**Segments Covered:**

- **Variables and Like Terms.**  
This segment covers an introduction to variables, expressions, and evaluating an expression if given replacement values. Also formulas are evaluated by substituting given replacement values.
- **Solving Equations.**  
This segment covers solving the most elementary linear equations so as to provide an introduction to the beginning of algebra. The notion of keeping an equation in balance is covered as well as elementary techniques for isolation of the unknown.
- **Applications of Linear Equations.**  
This segment covers translating phrases into expressions and solving applications by setting up and solving linear equations.

**Recommended Order of Study:**

- Print the study guide pages.
- Work the pre-assessment test prior to beginning each lesson to determine skill level and understanding of the topics covered.
- Begin the video lesson as prompted based on the pre-assessment results.
- Work through the video lesson. Use the study guide as a means to take notes, follow along with worked examples, and work additional practice problems.
- Review and/or print the Objective Summaries to reinforce material covered in each lesson
- Work the Practice Problems for each Objective

The Basic Math Interactive Video Tutor is broken down into Sections and further divided into learning Objectives. Pre-assessments at the beginning of each Section contain one or two questions that gradually increase in difficulty and are designed to test knowledge of each learning Objective. Results of assessments will prescribe at which Objective students should begin study in a particular Section. As in all pre-assessments, students may not score well since they have yet to have exposure to the lesson. Objectives covered in each section are listed on the following pages.

Upon completing pre-assessments, students may choose to begin lessons at the objective corresponding to first question missed. To go directly to a particular Objective, students can simply click the “Go to Video” button from the pre-assessment or they can select to go there from the Section menu. Or for review, students may want to begin lessons at the beginning of each Section. It is helpful to print study guide pages prior to beginning each Section. Study guides contain places for students to take notes and fill in the blanks areas that follow along with each lesson.

Once students have completed each lesson, they may review and print objective summaries which contain a written synopsis of the lesson covered. From there they may continue by working a series of follow-up questions to reinforce their knowledge of material covered. Additionally, they may work pencil and paper problems from the study guides.

**CD 8 – Introduction to Algebra**

**Section 29 Variables and Like Terms**

**Objectives Covered:**

1. Variables
2. The Substitution Property
3. The Substitution Property and Formulas
4. Collecting Like Terms

**Key Terms:**

- OBJECTIVE 1 Variables
- OBJECTIVE 2 Substitution Property
- OBJECTIVE 3 Formulas
- OBJECTIVE 4 Coefficient  
Like Terms

**Section 30 Solving Equations**

**Objectives Covered:**

1. The Distributive Property
2. Solving Addition and Subtraction Equations
3. Solving Multiplication and Division Equations
4. Mixed Equation Practice

**Key Terms:**

- OBJECTIVE 1 Distributive Property  
Variable Expression
- OBJECTIVE 2 Equation  
Solution
- OBJECTIVE 3 Operations  
Reciprocal
- OBJECTIVE 4 Real World Examples  
Word Problems

**Section 31 Applications of Linear Equations**

**Objectives Covered:**

1. Turning Phrases into Mathematical Expressions
2. Applications of Linear Equations I
3. Applications of Linear Equations II

**Key Terms:**

- OBJECTIVE 1 Constants  
Word Problems  
Real Life Examples
- OBJECTIVE 2 Word Problems  
Real Life Examples  
Linear Equation
- OBJECTIVE 3 Word Problems  
Real Life Examples