Educational Software, Inc.

## Basic Math Series

## Grade Level Recommendations

To be used with MathMedia Basic Math Series Software Programs

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## LESSON PLANNING

Each bar on the charts represents a time frame in which the topic is introduced, practiced and mastered.

## Example:

Grade Level

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| :---: | :---: | :---: | :---: |
| Introduce | Practice | Master |  |

These charts will provide you with a frame work for using MathMedia Basic Math Series Software to achieve math curriculum standards.

Please note that topics can be introduced, practiced and mastered concurrently.

## STUDENT PLACEMENT AND EVALUATION

Use the Mini Quizzes and Tests to place new students at their appropriate level. After taking the Tests, weaknesses are evaluated and scores are reported to the LMS (Learning Management System). Based on the score, you may decide to advance the student to the next topics or remediate the student to the previous topics. Tests may be printed and taken with pencil and paper.

FRACTION BASICS

|  | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 What is a Fraction? |  |  |  |  |  |  |  |  |  |
| 2 Equivalent Fractions |  |  |  |  |  |  |  |  |  |
| 3 Reduce to Lowest Terms |  |  |  |  |  |  |  |  |  |
| 4 Least Common Denominator (LCD) |  |  |  |  |  |  |  |  |  |
| 5 Comparing Fractions |  |  |  |  |  |  |  |  |  |
| 6 Convert Improper Fraction to Mixed Fraction |  |  |  |  |  |  |  |  |  |
| 7 Convert Mixed Fraction to Improper |  |  |  |  |  |  |  |  |  |
| 8 Graphing Fractions |  |  |  |  |  |  |  |  |  |
| 9 Convert Fraction to Decimal |  |  |  |  |  |  |  |  |  |
| 10 What is a Ratio? |  |  |  |  |  |  |  |  |  |
| 11 What is a Proportion? |  |  |  |  |  |  |  |  |  |
| 12 Adding Fractions |  |  |  |  |  |  |  |  |  |
| 13 Subtracting Fractions |  |  |  |  |  |  |  |  |  |
| 14 Multiplying Fractions |  |  |  |  |  |  |  |  |  |
| 15 Dividing Fractions |  |  |  |  |  |  |  |  |  |
| 16 Fractions of Numbers |  |  |  |  |  |  |  |  |  |
| 17 Operations on Mixed Numbers |  |  |  |  |  |  |  |  |  |

DECIMAL BASICS

|  | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 Place Value |  |  |  |  |  |  |  |  |  |
| 2 Writing Decimals |  |  |  |  |  |  |  |  |  |
| 3 Reading from a Graph |  |  |  |  |  |  |  |  |  |
| 4 Least to Greatest |  |  |  |  |  |  |  |  |  |
| 5 Rounding and Estimating |  |  |  |  |  |  |  |  |  |
| 6 Convert Decimals to Fractions |  |  |  |  |  |  |  |  |  |
| 7 Compare Decimals to Fractions |  |  |  |  |  |  |  |  |  |
| 8 Adding Decimals |  |  |  |  |  |  |  |  |  |
| 9 Subtracting Decimals |  |  |  |  |  |  |  |  |  |
| 10 Multiplying Decimals |  |  |  |  |  |  |  |  |  |
| 11 Dividing Decimals |  |  |  |  |  |  |  |  |  |
| 12 Powers of Ten and Scientific Notation |  |  |  |  |  |  |  |  |  |
| 13 Rational and Irrational Numbers |  |  |  |  |  |  |  |  |  |
| 14 Word Problems |  |  |  |  |  |  |  |  |  |

PERCENT BASICS

|  | $\mathbf{K}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 What is a Percent? |  |  |  |  |  |  |  |  |  |
| 2 Type 1 Problems |  |  |  |  |  |  |  |  |  |
| 3 Type 2 Problems |  |  |  |  |  |  |  |  |  |
| 4 Type 3 Problems |  |  |  |  |  |  |  |  |  |
| 5 Calculate Grades |  |  |  |  |  |  |  |  |  |
| 6 Sports |  |  |  |  |  |  |  |  |  |
| 7 Nutrition |  |  |  |  |  |  |  |  |  |
| 8 Discounts |  |  |  |  |  |  |  |  |  |
| 9 Circle Graphs |  |  |  |  |  |  |  |  |  |
| 10 Increase and Decrease |  |  |  |  |  |  |  |  |  |
| 11 Geography |  |  |  |  |  |  |  |  |  |
| 12 Political Polls |  |  |  |  |  |  |  |  |  |

ALGEBRA BASICS (PRE-ALGEBRA)

|  | K | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Signed Numbers |  |  |  |  |  |  |  |  |  |
| Order of Operations |  |  |  |  |  |  |  |  |  |
| Variables |  |  |  |  |  |  |  |  |  |
| Properties |  |  |  |  |  |  |  |  |  |
| Expressions |  |  |  |  |  |  |  |  |  |
| Equations |  |  |  |  |  |  |  |  |  |
| Exponents |  |  |  |  |  |  |  |  |  |
| Square Roots |  |  |  |  |  |  |  |  |  |
| Sets |  |  |  |  |  |  |  |  |  |
| Probability |  |  |  |  |  |  |  |  |  |
| Charts / Graphs |  |  |  |  |  |  |  |  |  |
| Challenge Questions |  |  |  |  |  |  |  |  |  |

## GEOMETRY BASICS

|  | K | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 Points, Lines, Angles |  |  |  |  |  |  |  |  |  |
| 2 Perpendicularity |  |  |  |  |  |  |  |  |  |
| 3 Parallel Lines |  |  |  |  |  |  |  |  |  |
| 4 Triangle Sum |  |  |  |  |  |  |  |  |  |
| 5 Similarity |  |  |  |  |  |  |  |  |  |
| 6 Right Triangles |  |  |  |  |  |  |  |  |  |
| 7 Circles |  |  |  |  |  |  |  |  |  |
| 8 Quadrilaterals |  |  |  |  |  |  |  |  |  |
| 9 Perimeter and Area |  |  |  |  |  |  |  |  |  |
| Coordinate Geometry |  |  |  |  |  |  |  |  |  |
| Vocabulary |  |  |  |  |  |  |  |  |  |
| Mean / Median |  |  |  |  |  |  |  |  |  |

