



# EVERYDAY MATHEMATICS

## GRADE 3 GRADE-LEVEL GOALS

| Content Strand: Number and Numeration   |   |   |
|---|---|---|
| Grade-Level Goals   | Content Thread  | Program Goal  |
| Goal 1 Read and write whole numbers up to 1,000,000; read, write, and model with manipulatives decimals through hundredths; identify places in such numbers and the values of the digits in those places; translate between whole numbers and decimals represented in words, in base-10 notation, and with manipulatives. | <i>Place value and notation</i>                               | Understand the Meanings, Uses, and Representations of Numbers |
| Goal 2 Read, write, and model fractions; solve problems involving fractional parts of a region or a collection; describe strategies used.   | <i>Meanings and uses of fractions</i>                         |   |
| Goal 3 Find multiples of 2, 5, and 10.  | <i>Number theory</i>  |   |
| Goal 4 Use numerical expressions involving one or more of the basic four arithmetic operations to give equivalent names for whole numbers.  | <i>Equivalent names for whole numbers</i>                     | Understand Equivalent Names for Numbers                       |
| Goal 5 Use manipulatives and drawings to find and represent equivalent names for fractions; use manipulatives to generate equivalent fractions.   | <i>Equivalent names for fractions, decimals, and percents</i> |   |
| Goal 6 Compare and order whole numbers up to 1,000,000; use manipulatives to order decimals through hundredths; use area models and benchmark fractions to compare and order fractions.   | <i>Comparing and ordering numbers</i>                         | Understand Common Numerical Relations                         |



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## GRADE 3 GRADE-LEVEL GOALS

| Content Strand: Operations and Computation   |   |                                   |
|--|---|-----------------------------------|
| Grade-Level Goals  | Content Thread                                | Program Goal                      |
| Goal 1 Demonstrate automaticity with all addition and subtraction facts through $10 + 10$ ; use basic facts to compute fact extensions such as $80 + 70$ .   | <i>Addition and subtraction facts</i>         | Computes Accurately               |
| Goal 2 Use manipulatives, mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the addition and subtraction of whole numbers and decimals in a money context; describe the strategies used and explain how they work. | <i>Addition and subtraction procedures</i>    |                                   |
| Goal 3 Demonstrate automaticity with $\times 0$ , $\times 1$ , $\times 2$ , $\times 5$ , and $\times 10$ multiplication facts; use strategies to compute remaining facts up to $10 \times 10$ .  | <i>Multiplication and division facts</i>      |                                   |
| Goal 4 Use arrays, mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the multiplication of 2- and 3-digit whole numbers by 1-digit and describe the strategies used.   | <i>Multiplication and division procedures</i> |                                   |
| Goal 5 Make reasonable estimates for whole number addition and subtraction problems; explain how the estimates were obtained.  | <i>Computational estimation</i>               | Make Reasonable Estimates         |
| Goal 6 Recognize and describe change, comparison, and parts-and-total situations; use repeated addition, arrays, and skip counting to model multiplication; use equal sharing and equal grouping to model division.  | <i>Models for the operations</i>              | Understand Meanings of Operations |



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## GRADE 3 GRADE-LEVEL GOALS

| <b>Content Strand: Data and Chance</b>   |   |  |
|--|---|--|
| <b>Grade-Level Goals</b>   | <b>Content Thread</b>                     | <b>Program Goal</b>  |
| Goal 1 Collect and organize data or use given data to create charts, tables, bar graphs, and line plots.   | <i>Data collection and representation</i> | Select and Create Appropriate Graphical Representations of Collected or Given Data |
| Goal 2 Use graphs to ask simple questions and draw conclusions; find the maximum, minimum, range, mode, and median of a data set.  | <i>Data analysis</i>                      | Analyze and Interpret Data   |
| Goal 3 Describe events using <i>certain, very likely, likely, unlikely, very unlikely, impossible</i> and other basic probability terms; explain the choice of language. | <i>Qualitative probability</i>            | Understand and Apply Basic Concepts of Probability                                 |
| Goal 4 Predict the outcomes of simple experiments and test the predictions using manipulatives; express the probability of an event by using “_ out of _” language.      | <i>Quantitative probability</i>           |  |



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## GRADE 3 GRADE-LEVEL GOALS

| <b>Content Strand: Measurement and Reference Frames</b>   |  |  |
|---|--|--|
| <b>Grade-Level Goals</b>  | <b>Content Thread</b>                        | <b>Program Goal</b>  |
| Goal 1 Estimate length with and without tools; measure length to the nearest $\frac{1}{2}$ inch and $\frac{1}{2}$ centimeter; draw and describe angles of records of rotations. | <i>Length, weight, and angles</i>            | Understand the Systems and Processes of Measurement; Use Appropriate Techniques, Tools, Units, and Formulas in Making Measurements |
| Goal 2 Describe and use strategies to measure the perimeter of polygons; count unit squares to find the areas of rectangles.  | <i>Area, perimeter, volume, and capacity</i> |  |
| Goal 3 Describe relationships among inches, feet, and yards; describe relationships between minutes in an hour, hours in a day, days in a week.                                 | <i>Units and systems of measurement</i>      |  |
| Goal 4 Tell and show time to the nearest minute on an analog clock; tell and write time in digital notation.  | <i>Time</i>                                  | Use and Understand Reference Frames  |



# EVERYDAY MATHEMATICS

## GRADE 3 GRADE-LEVEL GOALS

| Content Strand: Geometry  |                                     |   |
|---|-------------------------------------|---|
| Grade-Level Goals   | Content Thread                      | Program Goal  |
| Goal 1 Identify and draw points, intersecting and parallel line segments, and lines, rays, and right angles.  | <i>Lines and angles</i>             | Investigate Characteristics and Properties of Two- and Three-Dimensional Geometric Shapes |
| Goal 2 Identify, describe, model, and compare plane and solid figures including circles, polygons, spheres, cylinders, rectangular prisms, pyramids, cones, and cubes using appropriate geometric terms including the terms <i>face</i> , <i>edge</i> , <i>vertex</i> , and <i>base</i> . | <i>Plane and solid figures</i>      |   |
| Goal 3 Create and complete two-dimensional symmetric shapes or designs; locate multiple lines of symmetry in a two-dimensional shape.   | <i>Transformations and symmetry</i> | Apply Transformations and Symmetry in Geometric Situations                                |



# EVERYDAY MATHEMATICS

## GRADE 3 GRADE-LEVEL GOALS

| Content Strand: Patterns, Functions, and Algebra   |  |   |
|--|--|---|
| Grade-Level Goals  | Content Thread   | Program Goal  |
| Goal 1 Extend, describe, and create numeric patterns; describe rules for patterns and use them to solve problems; use words and symbols to describe and write rules for functions involving addition, subtraction, and multiplication and use those rules to solve problems. | <i>Patterns and functions</i>                          | Understand Patterns and Functions   |
| Goal 2 Read, write, and explain number sentences using the symbols $+$ , $-$ , $\times$ , $\div$ , $=$ , $>$ , and $<$ ; solve number sentences, write expressions and number sentences to model number stories.   | <i>Algebraic notation and solving number sentences</i> | Use Algebraic Notation to Represent and Analyze Situations and Structures |
| Goal 3 Recognize that numeric expressions can have different values depending on the order in which operations are carried out; understand that grouping symbols can be used to affect the order in which operations are carried out.  | <i>Order of operations</i>                             |   |
| Goal 4 Describe and apply the Commutative and Associative Properties of Addition, the Commutative Property of Multiplication, and the Multiplicative Identity.   | <i>Properties of the arithmetic operations</i>         |   |