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| MONTHS |  |  |  |  |  |  |  | March | April | May |
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| STRANDS | August | September | October | November | December | January | February |  |  |  |
| Number and Operations | *Read and write <br> numbers -thousandths <br> to millions (B1) <br> *Represent whole <br> numbers to 9999 *Place value - <br> thousandths to millions <br> (B2) <br> *Represent, compare, <br> and order whole <br> numbers and decimals <br> from thousan millions (B2) <br> *Represent whole <br> numbers and two place <br> decimals in expanded <br> form (B1) <br> mathematical language <br> and symbols | *Explain and <br> demonstrate the inverse <br> nature of addition and <br> subtraction <br> effects of additio <br> subtraction on size and <br> order of numbers <br> *Recognize reasonable <br> and subtraction <br> *Use strategies to <br> estimate the result of <br> whole-number <br> computations - addition and <br> subtraction (B2) <br> decimals (includin <br> monetary units) (B2) <br> *Add and subtract <br> whole numbers and <br> decimals (B2) <br> *Solve one- or two-step real-world problems involving addition and subtraction of whol <br> decimals(B2) | *Use commutative, properties <br> *Use strategies to <br> estimate the result of <br> whole-number <br> multiplication (B2) <br> *Solve multi-step real- <br> *Sorld problems <br> real-world problest <br> involving <br> multiplication of whole <br> numbers and decimals(B2) | *Communicate the <br> effects of division and <br> multiplication on size <br> and order of numbers *Recognize reasonable <br> estimates for <br> multiplication and <br> division <br> *Multiply decimals <br> (including monetary <br> units) (B2) <br> *Multiply and divide <br> whole numbers and decimals- 2 digit <br> multipliers and <br> divisors (B2) | *Use various models to show relationships fractions, mixed numbers, decimals *Model proper fractions, improper fractions, and mix numbers (B1/2) *Show the relationship fractions and numbers (B2/3) | * Compare and order fractions using the <br> (B2) <br> *Add and subtract <br> fractions with like <br> denominators <br> Add and subtract fractions <br> *Use models, <br> benchmarks, and <br> and subtract commonly <br> used fractions with like <br> and unlike denominators <br> Recognize and gener <br> whole numbers, common <br> fractions, and decimals <br> Recognize and <br> generate equivalen <br> fractions, decimals, <br> and percents (B3) | *Multiply a fraction by a multiple of its *Recognize relationship between common fractions and decimal *Identify missing information and/or too much information in *Solve real-world problems using decimals, fractions, and percents |  |  |  |
| Algebra | *Generalize and extend numerical patterns (B1) *Demonstrate understanding that an equation is a number quantities are equal | *Apply commutative, associative, and identity properties <br> *Represent and analyze patterns and functions sing words, tables, and graphs $\qquad$ rules (B2) -Interpret and solve open sentences that involve addition and subtraction (B2) | *Apply commutative, <br> associative, zero <br> identity, and distributive <br> properties | *Interpret and solve open sentences that involve multiplication and division (B2) *Show that division is not commutative |  |  |  | $\begin{aligned} & \text { *Generaliz and } \\ & \text { extend peometrical } \end{aligned}$ patterns (B1) |  |  |
| Geometry |  |  |  |  |  |  |  | *Identify, compare, and dimensional shapes/figures *Use the attributes of geometric figures to *Draw points, lines, line segments, rays, *Describe characteristic of lines and angles *Identify two dimensional shapes by given defining attribute | *Investigate, predict, and describe the best dimensional fig (slide, flip, turn) (B2) *Describe line and rotational symmetry in two-dimensional figures *Describe a motion or a series of motions that shapes are congruent *Create and describe mental images of objects, patterns, an paths (B3) |  |


|  |  |  |  |  |  |  |  |  | *Use visualization and patial reasoning to sol real-world problems *Identify, compare, and analyze attributes of three-dimensional shapes/figures *Identify threedimensional shapes by given defining attributes hypotheses about geometric properties Construct and draw geometric figures |  |
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| Measuremer |  |  |  |  |  |  |  |  |  |  |


| Data Analysis and <br> Probabilit |  | *Collect data using <br> observations, surveys, <br> and experiments <br> *Understand how data <br> collection methods affect <br> the nature of the data set <br> *Represent data using <br> pictographs, bar <br> graphs, tables, line <br> graphs, and circle <br> graphs (B1) <br> *Interpret data <br> displayed in tables, <br> pictographs, line <br> graphs, bar graphs, <br> and circle graphs (B1) <br> *Use measures of central tendency (mean, median, mode) and relate them to a visual representation <br> of a data set (B2) <br> *Determine the <br> median (B2), mode <br> (B2), and range of a <br> data set <br> *Make predictions and <br> justify conclusions <br> based on data (B3) <br> *Design investigations <br> to address a question <br> *Examine various <br> representations of data to <br> evaluate how accurately <br> the data is depicted <br> *Explain the importance <br> of sample size in $\qquad$ |  | *Determine the mean (B3), median (B2), mode (B2), and range of a data set |  |  |  |  |  | *Determine the likelihood or chance of events as certain, possible, or impossible (B2) <br> *Describe the likelihood or chance of events as likely, unlikely, certain, equally likely, or impossible (B2) *Understand that the measure of the likelihood of an event can be represented as a number from zero to one *Represent the likelihood of an event using a fractional number from zero to one (B2) <br> *Use a sample space to predict the probability of an event (B3) |
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| Related Literature | Weekly Reader Graphs \& tables | Weekly Reader Graphs \& tables | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ | Weekly Reader Graphs \& tables | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ | Weekly Reader <br> Graphs \& tables | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ | $\frac{\text { Weekly Reader }}{\text { Graphs \& tables }}$ |
| Field Studies | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science | *Estimate, calculate, and evaluate data with graphs and tables - Science |
| Technology | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators | *Computer math games <br> *CCC <br> *Calculators |
| Assessment | *Place Chart Quiz <br> *Prepared Test <br> *Quizzes | *Multiplication Fact Test <br> *Prepared Test <br> *Skittles Graphing Project <br> *Computer Graphing <br> *Project - written and oral presentation *Quizzes | *Multiplication and <br> Division Fact Tests <br> *Teacher-Made Test Multiplication <br> *"M \& M Math" Project <br> *Quizzes | *Multiplication and <br> *Division Fact Tests <br> *Teacher-Made Test Division <br> *Quizzes | *Chapter Notes <br> *Quizzes <br> *Prepared Test <br> *Fractional Friend | *Chapter Notes <br> *Quizzes <br> *Vocabulary Test <br> *Prepared Test | *Chapter Notes <br> *Quizzes <br> *Teacher-Made Test | *Geometry Notebook <br> *Polygon Creation <br> *Quizzes <br> *Teacher-Made Test | *Construction of a threedimensional figure <br> *Quizzes <br> *Teacher-Made Test | *Checkbook Project <br> *Restaurant Project <br> *End-of-the-Year <br> System-Wide Math Test |

