

Course and Purpose	Level	Content
<p>Math Concepts and Skills , Math Concepts and Skills 2, and Math Concepts and Skills, Spanish</p> <p>To provide interactive practice and assessment in elementary mathematics foundations</p>	K 1 2 3 4 5 6 7 8	<p>Math Concepts and Skills provides guided, interactive practice in 16 strands of mathematics covering more than 1600 learning objectives.</p> <p><i>Content Strands</i></p> <p>Addition, Subtraction, Multiplication, Division Fractions, Decimals, Equations, Speed Games</p> <p><i>Application Strands</i></p> <p>Number Concepts, Geometry, Measurement , Word Problems, Applications , Problem-Solving, Science Applications, Probability & Statistics</p> <p><u>Features</u></p> <ul style="list-style-type: none"> • Individualized instruction • Placement feature determines student’s functional level • Audio support through level 3 • Forecasting predicts the time needed for reaching specific levels • Automatic adjustment of difficulty level • Areas of difficulty re-introduced when appropriate • Computer-generated worksheets target specific learning needs
<p>Math Corner</p> <p>To ensure conceptual understanding by providing open-ended activities for students to explore mathematical ideas and problem solve</p>	K 1 2 3 4 5	<p>Math Corner, a multimedia resource bank for activity-based learning, includes computer-based manipulatives and tools commonly used in the elementary classroom. These manipulatives include pattern blocks, tangrams, base-ten and attribute blocks, spreadsheets and graphs, digital and analog clocks, color tiles and fraction strips, spinners and number cubes, geoboards, and money.</p> <ul style="list-style-type: none"> • 15 math environments with 100 preset activities on specific math topics • Data bank, spreadsheets and automatically-linked graphs for data analysis • Students’ work saved in online portfolios for teacher review • Students communicate understanding of concepts using the Journal • Extensive mathematics glossary and help system
<p>Math Investigations <i>(includes Math Processor)</i></p> <p>To promote student skills in applying mathematics and making problem-solving connections to social studies and science</p>	5 6 7 8	<p>Virtual field trips within the 24 interdisciplinary investigations utilize video and animation to motivate students as they solve problems in highly interactive, engaging, context-rich environments. The course provides foundations reinforcement and covers whole-number computation, fractions and decimals, measurement, estimation, percentages, data analysis, organization, spatial sense, reasoning and critical-thinking skills.</p> <ul style="list-style-type: none"> • Integrates real-world problem solving into other curricular areas • Guided, step-by-step approach provides students with a model for further investigations • Areas of difficulty re-introduced when developmentally appropriate • Built-in online tools support mathematical and critical-thinking skills
<p>Math Processor</p> <p>To provide a dynamic, interactive, tools-based environment for concept development and problem solving in mathematics</p>	5 6 7 8	<p>More than a dozen tools allow students to demonstrate and communicate conceptual understanding in mathematics. The dynamic “linking” in Math Processor lets students model different ways of representing, manipulating and analyzing the same data graphically, visually and symbolically.</p> <ul style="list-style-type: none"> • Robust tool sets validate assumptions and mathematical reasoning • Individual notebook lets student record and communicate understanding • Portfolios save student work online for teacher review and comment
<p>Algebra Topics</p> <p>To provide highly interactive, motivating first-year algebra instruction</p>	7 8	<p>32 independent lessons, each on a specific topic, arranged in the order generally found in algebra textbooks. This course illustrates and supports algebraic principals and allows students to use special features, including a graphing environment, an equation solver, and an expression calculator, to explore algebraic relationships.</p>