



Do The Math Now!


Aligns to Title III

ENGLISH LANGUAGE ACQUISITION

Title III—English Language Acquisition is designed to improve the education of limited English proficient (LEP) children and youths by helping them learn English and meet challenging state academic content and student academic achievement standards. The program provides enhanced instructional opportunities for immigrant children and youths. The following chart shows how **Do The Math Now!** can support a Title III program. The criteria are drawn from the Federal *Title III Non-Regulatory Guidance*, posted at:

<http://www2.ed.gov/programs/sfgp/index.html>

Components of a Title III Program	<i>Do The Math Now!</i>
<p>Increase the English proficiency of LEP children by providing high-quality educational programs that are based on scientifically based research</p>	<p>Do The Math Now!, developed by Marilyn Burns, is an intensive intervention program for students in Grades 6-12 who have fallen behind. Designed to build numerical foundations necessary to prepare students for Algebra, <i>Do The Math Now!</i> focuses on developing understanding and facility with whole numbers and fractions. By spending time developing unifying ideas, students build deep understanding, learn to reason mathematically, make connections across operations, and apply their skills to higher-level mathematics—critical foundations of Algebra.</p> <p><i>Do The Math Now!</i> is organized into two volumes—<i>Multiplication & Division</i> and <i>Fraction Fundamentals</i>. Both volumes are organized into five units, each with fifteen 30-minute lessons.</p> <ul style="list-style-type: none"> ▪ <i>Multiplication & Division</i> develops visual representations and reasoning skills that strengthen students’ conceptual understanding and computational skills. At the foundation of the lessons are applying the place-value structure of the number system and properties of numbers. ▪ <i>Fraction Fundamentals</i> strengthens students’ conceptual understanding of fractions. By developing mental representations, students use number sense as they compare, order, and explore equivalent fractions. The goal is to help students develop the understanding and skills to reason, estimate, add, and subtract with fractions. <p>RESEARCH</p> <p><i>Do The Math Now!</i> is a curriculum for math intervention that is carefully and intentionally sequenced to build numerical foundations in multiplication, division, and fractions for students in Grades 6 and above. The program was developed to address the NAEP data which revealed that 65% of students in Grade 8 are at or below a basic level of math proficiency. The National Mathematics Advisory Panel identified fluency with whole numbers and fluency with fractions as critical foundations for Algebra.</p> <p style="text-align: right;">CONTINUED</p>

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<p>Increase the English proficiency of LEP children by providing high-quality educational programs that are based on scientifically based research <i>Continued</i></p>	<p><i>Do The Math Now!</i> builds whole-number and fraction foundations, constructing a framework for learning that rebuilds students’ cognitive structures for understanding mathematics in order to prepare them for Algebra. The program focuses on developing a deep conceptual base for students who are below grade level. The <i>Do The Math Now!</i> instructional design applies what is known about a wide variety of students who struggle with math to achieve proficiency with Arithmetic concepts and skills by incorporating eight research-based guiding principles—Scaffolded Content, Explicit Instruction, Multiple Strategies, Gradual Release, Student Interaction, Meaningful Practice, Assessment & Differentiation, and Vocabulary & Language.</p> <p> For more information about the <i>Do The Math</i> Research Foundation, please see: http://teacher.scholastic.com/products/dothemath/research.htm</p>
<p>Measure the English proficiency of LEP students so that they develop proficiency in English while meeting State academic content and students academic achievement standards</p>	<p><i>Do The Math Now!</i> includes both embedded progress monitoring and summative assessments that allow teachers to continuously evaluate student understanding and monitor their progress. Ongoing assessment is built into <i>Do The Math Now!</i> as students use their <i>WorkSpace</i> during each lesson to follow along with lessons and to practice learned concepts and skills on a daily basis. During every fifth lesson, on a weekly basis, students complete the <i>Show What You Know WorkSpace</i> assignment to demonstrate understanding of the math content from the previous four lessons. After students complete the <i>Show What You Know</i> assignment, teachers can formally assess understanding of skills and concepts from the previous four lessons.</p> <p>In addition, summative assessments are administered through computer-based <i>ProgressSpace</i> assessments at the beginning and end of each unit and semester to assess understanding and monitor student progress over time.</p> <ul style="list-style-type: none"> ▪ <u>Beginning-of-Unit Assessments</u>—Administered at the start of each <i>Do The Math Now!</i> unit to capture students’ baseline scores and understanding of foundational math skills ▪ <u>End-of-Unit Assessments</u>—Administered at the end of each <i>Do The Math Now!</i> unit to enable teachers to track and monitor student progress over the course of 15 lessons ▪ <u>Beginning-of-Semester Assessments</u>—Both the <i>Multiplication & Division</i> and <i>Fraction Fundamentals</i> volumes include an assessment to capture students’ baseline scores at the beginning of each school semester. Both volumes include two Beginning-of-Semester Assessments each. ▪ <u>End-of-Semester Assessments</u>—Administered at the end of each school’s semesters, these assessments enable teachers to track and monitor student progress over the course of a semester. Both the <i>Multiplication & Division</i> and <i>Fraction Fundamentals</i> volumes include two End-of-Semester Assessments. <p style="text-align: right;">CONTINUED</p>

Components of a Title III Program	<i>Do The Math Now!</i>
<p>Measure the English proficiency of LEP students so that they develop proficiency in English while meeting State academic content and students academic achievement standards <i>Continued</i></p>	<p>All assessments in <i>Do The Math Now!</i> are administered in <i>ProgressSpace</i>, the online assessment and reporting component. With <i>ProgressSpace</i>, all curriculum embedded assessments are web-based and customized to meet students’ needs. Three easy-to-generate, actionable reports and a student test printout allow teachers to evaluate student understanding and measure growth. The Student Progress Report shows growth at the individual student level; the Grading Report shows performance at a class, grade, or school level; and the Response to Intervention report displays program performance at the school or district level.</p>
<p>Increases the English proficiency and academic achievement of LEP children in core academic subjects</p>	<p><i>Do The Math Now!</i> includes processes and materials that scientifically-based research has shown to be effective in increasing academic achievement. The program, which reflects <i>National Council of Mathematics</i> (NCTM) standards, teaches essential Multiplication, Division, and Fraction math skills that integrate with a core math curriculum. Step-by-step lessons help students develop understanding, learn skills, see relationships, and make connections. Lessons follow a Gradual Release model in order to prepare students for individual success.</p> <p><i>Do The Math Now!</i> consists of two teacher volumes—<i>Multiplication & Division</i> and <i>Fraction Fundamentals</i>—that support struggling students in learning key concepts and skills.</p> <p><u><i>Multiplication & Division</i></u></p> <p>These lessons strengthen students’ skills and develop their number sense in ways that prepare them for the structures of Algebra. Lessons focus on place value to model how numbers can be composed and decomposed.</p> <ul style="list-style-type: none"> ▪ Unit 1: Build a Foundation for Multiplication ▪ Unit 2: Develop Multiplication Number Sense ▪ Unit 3: Use Place Value Strategies to Multiply ▪ Unit 4: Connect Multiplication and Division ▪ Unit 5: Use Place Value Strategies to Divide <p><u><i>Fraction Fundamentals</i></u></p> <p>These lessons focus less on procedures and more on conceptual understanding. Students learn to estimate, add, and subtract fractions using strategies proven to help understand the meaning behind the math.</p> <ul style="list-style-type: none"> ▪ Unit 6: Develop Understanding of Fractions ▪ Unit 7: Reason with Fractions ▪ Unit 8: Extend Fraction Concepts and Compare Strategies ▪ Unit 9: Build on Equivalence to Estimate, Compare, Add, and Subtract ▪ Unit 10: Develop Fraction Number Sense <p style="text-align: right;">CONTINUED</p>

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<p>Increases the English proficiency and academic achievement of LEP children in core academic subjects <i>Continued</i></p>	<p><i>Do The Math Now!</i> allows for maximum access and success for English Language learners, with an emphasis on language development, the incorporation of visual representations and directions, and consistency across all instructional routines.</p> <p>Numerous structured opportunities for students to engage in meaningful conversations about math are embedded throughout the program to support intentional vocabulary and language development while increasing access to content. Vocabulary instruction is intentionally introduced after students experience the concept, helping students internalize the meaning of the word. Math vocabulary is explicitly taught using a consistent routine—students see, hear, say, and write the vocabulary word. Spanish translations are provided and cognates shown in italics. Language Development boxes point out the similarity of these words to their English equivalents or the multiple meanings of the English word in order to help Spanish-speaking students acquire vocabulary.</p> <p>Lessons integrate multiple visual representations of key math concepts. Visual directions in the student <i>WorkSpace</i> model problems for students who have difficulty reading in English. Student glossaries offer visual descriptions of vocabulary words. Translated into Spanish, they allow Spanish-speaking students to refer to the vocabulary independently. Visual representations of mathematical concepts are embedded throughout the program and are consistently used throughout student work. Hands-on materials help students build understanding and practice skills.</p>
<p>Improve the instruction of LEP children by providing for the acquisition of educational technology or instructional materials</p>	<p>The <i>Do The Math Now!</i> Interactive Whiteboard Tools are a series of interactive whiteboard tools that turn math lessons into engaging and visual experiences. These tools support instruction in both strands—<i>Multiplication & Division</i> and <i>Fraction Fundamentals</i>. The easy-to-use demonstration tools are ideal for Small- or Whole-group instruction and can be used on any whiteboard or classroom computer to help students better visualize math concepts and skills.</p> <p>The <i>Do The Math Now!</i> Interactive Whiteboard Tools meet the needs of teachers who aim to use technology to motivate, encourage, and help change students’ attitudes towards math. Because today’s students are technology-oriented, the tools reach students who are not successful at traditional paper and pencil math computation. Teachers and students are able to write equations with whole numbers and fractions, draw lines, draw open number lines, and more on the interactive whiteboard.</p>
<p>Provide high-quality professional development to classroom teachers, principals, and administrators that is designed to improve the instruction and assessment of limited English proficient children</p>	<p><u><i>Do The Math Now!</i> Implementation Training</u></p> <p>This training helps teachers get started using the program in the classroom. They will learn how to effectively use <i>Do The Math Now!</i> to meet the needs of struggling math students in Grades 6-10+, including understanding how the program structure builds foundational math skills and sequences the content to teach students to reason mathematically, teaching the instructional strategies and lessons, and using assessment data to influence instruction.</p> <p style="text-align: right;">CONTINUED</p>

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<p>Provide high-quality professional development to classroom teachers, principals, and administrators that is designed to improve the instruction and assessment of limited English proficient children</p>	<p><u>Do The Math Now! Interactive Webinar</u></p> <p>In this interactive Webinar, teachers, coaches, and administrators learn how to use <i>Do The Math Now!</i> assessments, including using <i>ProgressSpace</i>, analyzing data to monitor progress and inform instruction, and understanding how to manage enrollment, customize settings, and access reports using SAM.</p> <p><u>In-Classroom Support</u>—RECOMMENDED, at an additional cost</p> <p>Scholastic consultants provide teachers with individualized support and focused strategies side-by-side in the classroom. They build relationships with teachers to support on-model implementation, classroom management, program monitoring, and data-driven instruction. A year-long customized plan of in-classroom visits provides teachers with in-person, individualized support and focused strategies for the classroom. For the best results, Scholastic recommends monthly visits for all teachers.</p>
<p>Assist parents in helping their children to improve their academic achievement and become active participants in the education of their children</p>	<p>Located on the <i>TeacherSpace</i> CD-ROM, the <i>Do The Math Now!</i> Community News reproducibles provide communication to parents and are also available in Spanish. Through this ongoing communication, parents are kept informed on the concepts and activities that have been presented in the classroom. The newsletter also includes suggested activities and practice games for students to try at home. In addition, teachers can share <i>WorkSpace</i> pages and assessment results with parents.</p>
<p>Develop and implement elementary or secondary school language instruction educational programs that are coordinated with other relevant programs and services</p>	<p><i>Do The Math Now!</i> can be integrated with funds from state, local, private, and other sources. The federal funding programs for which it qualifies include:</p> <ul style="list-style-type: none"> ▪ Title IA—Improving Basic Programs ▪ Title I—School Improvement Grants (SIG) ▪ Title I—Supplemental Education Services (SES) ▪ Title III—English Language Acquisition ▪ 21st Century Community Learning Centers (21CCLC) ▪ Race to the Top—District (RTT-D)