

Do The Math Now!

Aligns to 21st Century Community Learning Centers

The purpose of the 21st Century Community Learning Centers program is to support the creation of community learning centers that provide academic enrichment opportunities during non-school hours for children, particularly students who attend high-poverty and low-performing schools. The program helps students meet state and local standards in core academic subjects, such as reading and math; offers students a broad array of enrichment activities that can complement their regular academic programs; and offers literacy and other educational services to the families of participating children. The following chart shows how **Do The Math Now!** can support a 21st CCLC program. The criteria are drawn from the Federal 21st CCLC Non-Regulatory Guidance, posted at:

http://www2.ed.gov/programs/21stcclc/legislation.html

integrif www.z.ed.gov/programs/zzsteere/registationintim	
Components of a 21CCLC Program	Do The Math Now!
Activities that provide remedial education activities, including additional assistance to students to allow the students to improve their academic achievement	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.
	Do The Math Now! is organized into two volumes—Multiplication & Division and Fraction Fundamentals. Both volumes are organized into five units, each with fifteen 30-minute lessons.
	 Multiplication & Division 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.
	Fraction Fundamentals 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.
	State Standards recommend more focused and coherent content that will provide the time for students to discuss, reason with, reflect upon, and practice higher-level mathematics. For intervention students who have already fallen behind, instruction must focus on the most critical foundations for Algebra.
	CONTINUED

Components of a 21CCLC Program	Do The Math Now!
Activities that provide remedial education activities, including additional assistance to students to allow the students to improve their academic achievement Continued	 Po The Math Now! rebuilds the cognitive structures for understanding and: Focuses on developing understanding of key concepts and skills with whole numbers and fractions—the essentials necessary for students to succeed in Algebra and higher-level mathematics Connects students' numerical learning to the Standards for Mathematical Content by providing lessons that balance developing understanding and learning procedures Supports the Standards for Mathematical Practice by strengthening students' ability to make sense of concepts, solve problems, reason, and use appropriate tools
Programs that are based on scientifically based research that provides evidence that the program will help students meet state and local achievement standards	Do The Math Now! 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. Do The Math Now! 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 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. For more information about the Do The Math Research, please see: http://teacher.scholastic.com/products/dothemath/research.htm
Academic activities aligned with the school's curriculum in the core subject areas	Do The Math Now! consists of two volumes—Multiplication & Division and Fraction Fundamentals—that support students in learning key concepts and skills. Multiplication & Division 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. 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

Components of a 21CCLC Program	Do The Math Now!
Academic activities aligned with the school's curriculum in the core subject areas Continued	Fraction Fundamentals 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.
	 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
Technology education programs	The Do The Math Now! 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—Multiplication & Division and Fraction Fundamentals. 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.
	The 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, and draw open number lines.
Activities for limited English proficient students that emphasize language skills and academic achievement	Do The Math Now! 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.
	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.
	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.

Components of a 21CCLC Program	Do The Math Now!
Programs that provide assistance to students who have been truant, suspended, or expelled, to allow the students to improve their academic achievement	Do The Math Now! was purposefully designed to support below grade-level students and prepare them for Algebra. Instruction directly links to Algebra by providing teachers with Connecting to Algebra supports, which are embedded in the Teacher Guide lessons. These supports explain how particular content strategies prepare students for success with higher-order mathematical concepts and algebraic reasoning.
	Organized into manageable chunks, the content in <i>Do The Math Now!</i> is sequenced and paced so that all students experience success early. Challenged to think about math in new ways, students begin to make sense of math and put forth the effort to succeed. Instructional materials are designed to engage students through modeling with concrete experiences, interactive whiteboard technology, strategic games, think-pair-share activities, and small-group work.
Ongoing staff training for implementing the academic support and enrichment services	Do The Math Now! Implementation Training This training helps teachers get started using the program in the classroom. Participants learn how to effectively use Do The Math Now! 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.
	<u>Do The Math Now!</u> Interactive Webinar In this interactive Webinar, teachers, coaches, and administrators learn how to use <u>Do The Math Now!</u> assessments, including using <u>ProgressSpace</u> , analyzing data to monitor progress and inform instruction, and understanding how to manage enrollment, customize settings, and access reports using SAM.
	In-Classroom Support—RECOMMENDED, at an additional cost 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.
Programs that promote parental involvement	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.

Common to f	
Components of a 21CCLC Program	Do The Math Now!
Periodic evaluation of the academic progress of children participating in the 21 st CCLC program	Do The Math Now! 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.
	In addition, summative assessments are administered through computer-based ProgressSpace assessments at the beginning and end of each unit and semester to assess understanding and monitor student progress over time.
	Beginning-of-Unit Assessments—Administered at the start of each Do The Math Now! unit to capture students' baseline scores and understanding of foundational math skills
	End-of-Unit Assessments—Administered at the end of each Do The Math Now! unit to enable teachers to track and monitor student progress over the course of 15 lessons
	Beginning-of-Semester Assessments—Both the Multiplication & Division and Fraction Fundamentals 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.
	End-of-Semester Assessments — 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 Multiplication & Division and Fraction Fundamentals volumes include two End-of-Semester Assessments.
	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.

Components of a 21CCLC Program	Do The Math Now!
Coordination of Federal, State, and Local services and programs	Do The Math Now! can be integrated with funds from state, local, private, and other sources. The federal funding programs for which it qualifies include: Title IA—Improving Basic Programs Title I—School Improvement Grants (SIG) Title I—Supplemental Education Services (SES) Title III—English Language Acquisition IDEA, Part B IDEA, Response to Intervention 21st Century Community Learning Centers (21CCLC) Race to the Top—District (RTT-D)