MATH 180

Aligns to Title I, Section 1003(g)
SCHOOL IMPROVEMENT GRANTS

School Improvement Grants (SIG) are intended to help Title I schools, identified for improvement, corrective action, or restructure, implement reform strategies, specifically the four intervention models—Turnaround, Restart, School Closure, or Transformation Model. Within the Turnaround and Transformation Models, districts and schools are required to implement a series of required activities, as well as other optional elements. The chart below shows how ***MATH 180*** can support School Improvement, specifically for Turnaround and Transformation Models. The criteria are drawn from the Federal Title I, Section 1003(g) Guidance posted at: http://www2.ed.gov/programs/sif/legislation.html.

SIG Requirements	*MATH 180*
Implement an instructional program that is research-based	*MATH 180* is a math intervention program for the Common Core that empowers students in grades 6 and up to learn the content foundational to Algebra. Since the development of emotional and social competencies essential for success in college and career works hand in hand with efforts to improve students' content knowledge, *MATH 180* is rooted in relevance and real world connections, providing a rich landscape for learning in multiple domains. Three research-based principles have been engineered into *MATH 180* to transform math instruction so that students believe in the possibility of success and their teachers have cutting-edge tools to accelerate them to the rigors of the Common Core. Guided by Dr. Carol Dweck's organization Mindset Works®, *MATH 180* fosters a growth mindset by showing students that their efforts lead to success. Adaptive technology is a key partner in furthering this attitude. While diagnosing student gaps and delivering a "just right" dosage of instruction and practice, *MATH 180* builds student confidence and ensures evidence-based mastery of newly learned skills and concepts. For middle school students who are two or more years behind in math, reteaching every missed skill and concept simply isn't possible. *MATH 180* focuses on deep understanding and mastery of the Core Within the Core—the essential skills and concepts necessary to unlock Algebra and advanced mathematics. Carefully curated by Common Core architects, including Dr. Sybilla Beckmann, the *MATH 180* scope and sequence is built around a focused and coherent curriculum that enables struggling students to progress quickly and effectively toward grade-level curriculum. A force multiplier is an approach that dramatically increases—or multiplies—effectiveness. Teachers are the key force behind effective math instruction, yet for most school districts, teacher preparedness has become a critical issue. The *MATH 180* professional learning scaffolds less experienced teachers and provides a wealth of sophisticated supports to veteran math teachers. Guided by Dr. Deborah Ball, the country's most respected voice in building teaching capacity, *MATH 180* helps teachers become force multipliers by surrounding them with the resources they need to be greater at what they do best. 📖 For additional information regarding the *MATH* 180 research and program authors, please see: http://teacher.scholastic.com/products/math180/authors-advisors.htm.

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Implement an instructional program that is aligned with State academic standards	Working with leading Common Core experts and authors, the *MATH 180* scope and sequence is built on the Core Within The Core—the essential math skills and concepts that deepen core understandings to help students achieve success with Algebra standards. In addition to teaching content standards that provide the conceptual underpinnings of Algebra, *MATH 180* is designed to build students' conceptual understanding, flexible strategic thinking, and problem-solving perseverance. *MATH 180* is built from a carefully sequenced and paced progression of content. Nine blocks of instruction feature high-interest themes while the focused content helps students make connections while learning to think algebraically. The nine blocks of instruction include the following: ▪ Multiplicative Thinking ▪ The Distributive Property ▪ Division ▪ Fraction Concepts ▪ Fraction Relationships ▪ Fraction Multiplication and Division ▪ Decimals and Place Value ▪ Decimal Operations ▪ Both Sides of Zero 📖 For information about how *MATH 180* correlates to State Standards, please see: http://teacher.scholastic.com/products/math180/common-core-progressions.htm.
Integrate technology-based supports and interventions as part of the instructional program	The *MATH 180* software builds mastery and a mathematical mindset for students through instructional videos, guided problem sets, adaptive formative assessments, and smart math games designed to build fluency. *MATH 180* offers students a highly engaging software experience within the following zones of instruction: <u>The Explore Zone</u> In the Explore Zone, students first watch an Anchor Video to learn how math is used in a real context. After watching the video, students complete a simulation during which they have the opportunity to make a series of unique mathematical decisions to meet a designated goal. <u>The Learn Zone</u> In the Learn Zone, students progress through direct instruction and adaptive practice with key concepts along the path to Algebra. They demonstrate mastery at their own pace with varying levels of scaffolding and feedback to foster independent success. The software gradually releases students from guided to independent practice using visual models, a metacognitive coach, and corrective feedback. <u>The Success Zone</u> Built as a game board with choice, the Success Zone features problems designed around the items students will encounter on the Next Generation Assessments, providing critical practice in a rewarding, fun space. <u>The Brain Arcade</u> Customized to each student's needs, the Brain Arcade provides a personalized playlist of games that build both computational and strategic fluency.

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Use formative, interim, and summative assessments to inform and differentiate instruction	*MATH 180* includes a comprehensive suite of high-quality assessment tools and reports to monitor progress and differentiate instruction. *Scholastic Math Inventory* (SMI) can determine readiness for *MATH 180* and establish a baseline for measuring mathematical growth. Throughout the student software, students have the ability to take a Fast Track assessment, which provides an accelerated route through the software. Curriculum-embedded assessments, called *mSkills*, measure understanding to group instruction. To assess the shifts in students' mindsets, students take the Mindset Scan from Mindset Works®. All assessment data is immediately available to teachers and administrators through *Scholastic Central* and the Teacher Dashboard.
Promote the continuous use of data in order to meet the diverse academic needs of individual students	*MATH 180* utilizes Scholastic Central, a digital platform that leverages the power of technology to support teaching with smart data, powerful tools for differentiated instruction, and resources that are comprehensive, cohesive, and convenient. Scholastic Central includes comprehensive class- and student-level data to monitor students' progress and performance in the program. Teachers use the following Scholastic Central data analysis tools to track student progress toward grade-level standards and Algebra readiness and monitor ongoing overall growth in math understanding. ▪ Data Snapshots—High-level data snapshots that support lesson planning and monitor class progress and performance ▪ Classroom Analytics—Monitor and track students' progress and performance in the software and compare assessment results ▪ Student Analytics—Track students' trajectory toward Algebra readiness and plan individualized instructional support. ▪ Data Reports—Track students' overall growth in mathematics The Teacher Dashboard provides the resources that teachers need to manage the student data they collect, group students, and plan instruction. From the Dashboard, teachers can view and print reports that provide detailed diagnostic data to help teachers understand individual needs, group students, target key skills, monitor growth, and compare progress with peers. The Leadership Dashboard facilitates connected leading by providing an easily accessible overview of program implementation metrics. Leaders can use the dashboard to efficiently monitor student performance and implementation fidelity and to access tools for planning and managing resources.
Implement a school wide *Response to Intervention* model	To accelerate learning for students below grade level, *MATH 180* maintains a tight focus on the concepts, strategies, and content knowledge that matter: those that constitute the progression to Algebra. Students in *MATH 180* progress from concrete to pictorial (or representational) to abstract representations of each concept. Students learn with understanding, far beyond the automatic application of an algorithm. In each successive unit of *MATH 180*, students are encouraged to activate prior learning and access the models and strategies common to multiple topics. This way, students build mental connections between topics and transfer knowledge smoothly with a reduced strain on memory retrieval processes. CONTINUED

SIG Requirements	*MATH 180*
Implement a school wide *Response to Intervention* model *Continued*	In addition, *MATH 180* utilizes the *Scholastic Math Inventory* (SMI), a research-based, adaptive assessment that measures students' current level of math understanding using the Quantile Framework. The framework is a unique measurement system that uses a common scale to assess both a student's mathematical achievement level and the difficulty of the skills and concepts students are learning. SMI results can be organized into district, school, class, and individual data reports to determine a response to intervention.
Implement effective strategies to ensure that students with disabilities and LEP students acquire language skills to master academic content	<u>Strategies for English Language Learners</u> *MATH 180* provides maximum support for English language learners with emphasis on language development and use of visual representations and routines that support classroom discourse. ▪ Explicit Vocabulary Instruction—Teachers introduce vocabulary through a consistent routine of hear it, see it, say it, and define it. Spanish translations of all vocabulary are provided for teachers and students. ▪ Sentence Frames provide students struggling with language access to sentence structures they would have difficulty accessing on their own. ▪ Classroom Routines & Language Goals support classroom discourse and offer structured opportunities for students to engage in meaningful conversations about math before speaking in front of a larger group. <u>Strategies for Special Education Students</u> For many older struggling students who have unique learning challenges or have been identified as in need of special education services, *MATH 180* helps meet their unique education goals. ▪ Individual Education Program (IEP) Supports—Point-of-use data and reports allow teachers and parents to measure student progress toward annual IEP goals. ▪ Adaptive, Individualized Pacing—The Adaptive Software allows students to move at their own pace and receive individualized, targeted instruction. ▪ Universal Design for Learning (UDL) Principles—Working with CAST, the *MATH 180* software aligns with the core principles of UDL, providing multiple means of representation, action and expression, and engagement.
Establishing schedules and strategies that provide increased learning time	The flexible instructional model in *MATH 180* maximizes instructional time with a clear organization for whole class, group, and individualized learning. Instruction begins with a whole-class "Do Now" exercise to help students warm-up. Then based on the data and Groupinator™ analysis, students divide into two groups and rotate between stations for teacher-led group instruction and the *MATH 180* Software. During Group Instruction, the teacher facilitates instruction to build conceptual understanding, develop reasoning and communication skills, and interpret student thinking. The *MATH 180* instructional software adapts to each student's needs, providing added support and practice for those who need it and accelerating those ready to move on. The *Brain Arcade*, available anytime, anywhere, provides each student with a personalized playlist of games that build strategic and procedural fluency.

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Providing ongoing mechanisms for family and community engagement	The *MATH 180* Family Portal brings the learning home, providing guidance for parents to both understand the power of the growth mindset and cultivate mathematical learning opportunities at home. Additionally, a Parent Letter, available in English and Spanish, explains the goal of the *MATH 180* program, steps children will be completing as they learn, and ways to reinforce their learning at home. Student reports that display students' progress and usage in the program can be shared with parents during conferences or sent home as progress indicators. Teachers are able to print Award Certificates as student master different instructional blocks. The certificates can be shared with parents, as well as used as examples of student achievement and progress.
Provide staff with ongoing, high-quality job-embedded professional development that is aligned with the school's comprehensive instructional program	Scholastic provides the following professional development for teachers and leaders: <u>*MATH 180* Implementation Training— Part I</u> INCLUDED WITH PURCHASE ▪ Identify the ways *MATH 180* raises math achievement and increases college/career readiness ▪ Experience the *MATH 180* Instructional Model ▪ Use resources to effectively teach, manage, and assess learning in *MATH 180* ▪ Manage classes and student data with *Scholastic Central* and the Teacher Dashboard <u>*MATH 180* Implementation Training— Part II</u> INCLUDED WITH PURCHASE ▪ Implement key Instructional math routines to effectively engage students ▪ Pace and differentiate instruction ▪ Assess student learning to identify student needs and target instruction ▪ Use the Teacher Dashboard to plan lessons, monitor progress, and plan differentiated instruction <u>*MATH 180* Leadership Overview Training</u> INCLUDED WITH PURCHASE ▪ Understand the research-based materials and instruction ▪ Explore each component of the Instructional Model ▪ Learn how to use program data and classroom observations to monitor progress ▪ Identify tools, strategies, and next steps for successful program implementation Scholastic will also meet with school or district teams to develop a personalized professional development plan that best supports their needs.
Conduct periodic reviews to ensure that the curriculum is being implemented with fidelity,	<u>In-Classroom Support & Coaching</u> RECOMMENDED—At an additional cost Scholastic offers a yearlong customized plan of in-classroom visits that provides teachers with in-person, individualized support and focused strategies for the classroom. Based upon the Teacher Self-Assessment Form, Scholastic Consultants provide teachers with individualized support and focused strategies side-by-side in the classroom. Our consultants will build relationships with teachers to support on-model implementation, classroom management, program monitoring, and data-driven instruction.

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and is having the intended impact on student achievement	Data Analytics Services RECOMMENDED—At an additional cost Scholastic will partner with the district to collect and analyze data from the district level down to the individual classroom, and present customized reports and graphs, as needed, to determine next steps. Scholastic experts can help the district to: ▪ Use program data to evaluate implementation and make changes for program efficiency and return on instruction investment ▪ Compare and analyze district, school, and classroom growth data and targets ▪ Identify district- or school-level trends and quickly "drill down" to pinpoint concerns ▪ Use data for short- and long-range planning for teachers, classrooms, schools, and the district Scholastic Implementation Experts provide the district with feedback on how to improve the implementation of *MATH 180* or other Scholastic programs in the district. Quarterly Implementation Effectiveness Reports include: ▪ Implementation indicators at the class, school, and district levels ▪ Actionable data and recommendations for school and district leaders ▪ Data presentations, as needed
Develop and increase teacher and school leader effectiveness	To improve student achievement, districts need to have a clear vision for teaching and learning, a firm understanding of priorities, and a defined path to accomplish goals. The *Scholastic Achievement Partners* (SAP) team of proven leadership and instructional specialists can partner with school leaders to help develop and implement an actionable plan for school improvement. SAP provides districts and schools with focused support for strategic planning, on-site consulting, leadership coaching, instructional support culture, and governance support to help district leaders achieve school improvement goals. SAP services include the following: Comprehensive Needs Assessment—During this data-driven planning process, SAP consultants work with school leadership teams to identify the strengths and challenges of a district or school. Working together, goals are established, and measurements to assess implementation are defined. The Needs Assessment includes interviews, focus group discussions, presentations, and a final report. Data Analysis Reporting (DAR)—The Data Analysis Report (DAR) is a longitudinal report that provides an in-depth review of a school or district's performance measures over the course of the past three years. The data profile provides quantitative evidence of student academic data, demographic information, college readiness indicators, and school characteristics to help identify strengths and areas of need and serves as a starting point for comprehensive school improvement. Leadership Institute—SAP can tailor an intensive Leadership Institute that quickly and effectively builds the leadership density of the academic team. Ideal for districts with new leadership or within a district under rapid change, these institutes are delivered over consecutive days and typically held during the summer of scheduled in-service days. The topics are customized to meet the specific needs of the leadership team. CONTINUED

SIG Requirements	*MATH 180*
Develop and increase teacher and school leader effectiveness *Continued*	Foundations of Organizational Leadership—These one-day courses focus on building leadership capacity. Topics include Establishing Structures, Communicating a Shared Vision, Creating a Culture of High Academic Expectations, Using Systemwide Data, Leading Change, Developing and Implementing Rigor and Relevance, as well as Leading Professional Dialogue. Foundations of Effective Instruction—These one-day courses focus on building and sustaining teacher effectiveness. Topics include Creating a Rigorous and Relevant Learning Environment, Applying Rigorous and Relevant Instructional Strategies, Using Data to Inform Instruction, and Collaborating for Continuous Professional Learning. Leadership Coaching—Highly customized, on-site support with an executive coach helps build leadership capacity through side-by-side, collaborative sessions that support leaders. Job-Embedded Instructional Coaching—Results-oriented and holistic in approach, job-embedded instructional coaching supports teachers in meeting the needs of every student by building their skills in learner engagement, academic rigor, and real world relevance. Coaches work with teachers during the regular school day in their classrooms and during planning periods to raise student achievement. 📖 For additional information regarding SAP services, please see: http://teacher.scholastic.com/products/scholastic-achievement-partners/#/our-services-section.