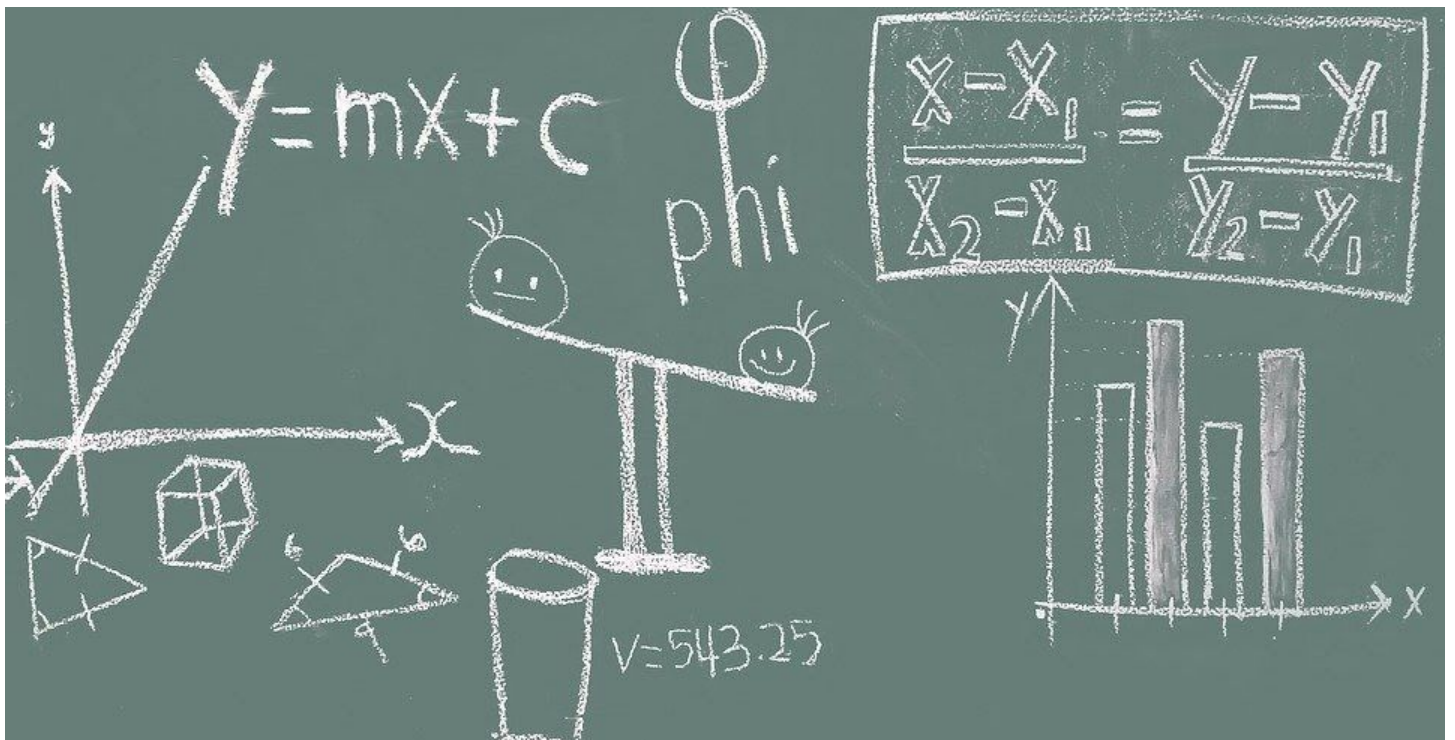


Math Resource Guide

December, 2019



Math Resource Guide

Disclaimer

Administrators & teams are encouraged to use the [Intervention Selection Tool](#) when deciding what is best for students' instruction.


These interventions were selected to be trained and supported by the SSD Numeracy Focus Team. Please use KickUp to sign up for in house trainings. Only some trainings are deployed county-wide. Please contact your Key Communicator for regional trainings.

This document represents the work of the CSIP Strategy Team 1.2. It was created in an effort to support SSD administrators and teachers who provide instruction to students who receive services in the area of mathematics. This guide may also be used by Administrator and Area or Building Leadership Teams when exploring options for math intervention program planning alongside their partner district administrator.

Core:	Supplemental:	Replacement:
Gen Ed for math instruction with accom/mod	Gen Ed for math instruction with SPED minutes	Primarily SPED for math instruction

If there is a program not on the list that better meets the needs of the student/area/building, then training options would need to be sought through the publisher.

Materials are budgeted for and provided by administrators within regions.

<p>Early Numeracy</p> 	<p>Early Numeracy is a direct, systematic instructional program designed to teach early numeracy skills in a structured manner. Lessons are based around themes. There are four units of instruction, which address 7 domains in the Early Numeracy curriculum. These are centered on three areas: counting, sets, and symbol use. Students will address the following skills: count with one-to-one correspondence, numeral identification from 1 to 10, numeral naming 1–10, rote counting to 20, creating sets to 10, beginning addition of sets, identification and understanding of numeracy symbols, identification, extension, and creation of ABAB patterns, use and understanding of calendars, and use of nonstandard and standard units of measurement</p>
<p>Level of Intervention</p>	<p>_X_ replacement or __ supplemental</p>
<p>Major Focus</p>	<p>_X_ calculation and/or _X_ problem solving</p>
<p>Publisher and Contact</p>	<p>Attainment Company</p>

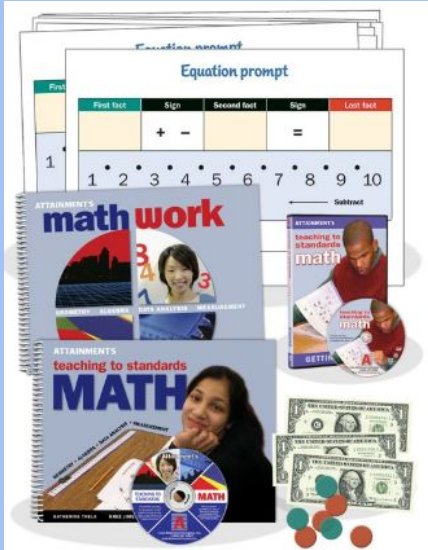
	<p>504 Commerce Parkway Verona, WI 53593-0160 800-327-4269 Website</p>
Cost	<p>\$599.00/kit \$69 for 10 student workbooks</p>
Age/ Grade Levels	<p>Elementary K-5 students with disabilities, which includes students with moderate-to-severe intellectual disabilities and/or autism. The curriculum addresses the adaptations required for instruction of students who are nonverbal, have visual impairments, have physical limitations, or who are deaf (ages 5 to 11).</p>
Setting/ Group Size	<p>1:1 or small group instruction (2:1 or 3:1 ratio of students to teacher is recommended by Attainment)</p>
Length of Lesson	<p>30-minute lesson segments</p>
Materials Needed	<p>Each kit contains the following materials: Implementation Guide (describes the Scope and Sequence, how to teach using the curriculum, determining the starting point, and reproducible forms for implementation), Teacher's Guides with Scripted Lessons, Assessment Manual, Math Stories, Student Response Book (each student should have one of these), Math Fun (each student should have one of these), CD, Lesson Manipulatives, Student Materials, Teacher Materials (e.g., large graphic organizers for lessons), 14 games; CAUTION: the manipulatives for this program are very small; if students are prone to putting objects in their mouths, it would be best not to use the manipulatives provided.</p>
Training Required	<p>SSD requires that teachers who implement this program go through training either provided by Attainment or via SSD</p>
Research	<p>The Early Numeracy curriculum was built on research and was field-tested; however, more research is needed to extend the evidence base. Seven students with severe disabilities, including students with autism and moderate-to-severe intellectual disabilities received daily math instruction using the Early Numeracy curriculum, and participated in general education math classes with peers of their same chronological ages. The grant staff trained three special education teachers to implement with fidelity the Early Numeracy curriculum in their self-contained classrooms. In addition, the grant staff trained three special education paraprofessionals to embed instruction with fidelity in the general education classroom. Results showed that all students acquired targeted early numeracy skills across units. Generalization of skills was observed across units prior to instruction for each student. Additionally, Jimenez and Kemmery (2012) conducted a single-subject multiple probe across classrooms study that investigated the effect on early numeracy skills on five students (within three classrooms) when using the Early Numeracy curriculum. Three teachers of students with significant disabilities used the Early Numeracy curriculum to teach five elementary</p>

	<p>students (ages 7–11) early math skills. During baseline, all five students had limited early numeracy skills (ranging from 4.2%–34% mastery, with a mean of 17.8%). After teaching Unit One of the Early Numeracy curriculum, all five students significantly increased their early numeracy skills (ranging from 13.3% to 44% mastery, with a mean of 28%).</p>
--	---

<p style="text-align: center;">Math Skills Builder</p> 	<p>Math Skills Builder develops students' emerging problem-solving skills using real-world math problems. The real-life scenarios in the curriculum help students learn <i>when</i> and <i>why</i> to use their math problem-solving skills. Math Skills Builder uses authentic story problems as the focus of all instruction so students learn to apply their new skills from the get-go.</p> <p>Eight units of instruction with five lessons each, provide story problems that are theme-based (e.g., math in the grocery store). The eight units teach students to solve addition (sums to 10) and subtraction story problems (differences to 9) use three problem-solving strategies: Group, Change, and Compare.</p> <p>The teacher-friendly lessons are scripted to suggest feedback responses for prompting, error correction, and praise, and each math story problem is presented using various media, including a workbook, software/iPad app, and video simulations to ensure student success.</p> <p>Students with mild disabilities will advance through the curriculum quickly and be ready for higher-level math concepts; students with moderate-to-severe disabilities may require multiple years of instruction. The curriculum begins with a review of early numeracy foundational skills, then advances to solving math story problems. lessons address adaptations required for students who are nonreaders and/or nonverbal.</p> <p>In this curriculum, problem-solving is taught in an explicit manner using principles of direct instruction, task analytic instruction, and self-monitoring strategies.</p>
<p>Level of Intervention</p>	<p><input type="checkbox"/> replacement or <input type="checkbox"/> supplemental</p>
<p>Major Focus</p>	<p><input type="checkbox"/> calculation and/or <input type="checkbox"/> problem solving</p>
<p>Publisher and Contact</p>	<p>Attainment Company 504 Commerce Parkway Verona, WI 53593-0160 800-327-4269 Website</p>
<p>Cost</p>	<p>\$595.00/curriculum \$69/pack 10 student workbooks</p>


Age/ Grade Levels	Elementary/middle school students with disabilities, which includes students with moderate-to-severe intellectual disabilities and/or autism. The curriculum addresses the adaptations required for instruction of students who are nonverbal, have visual impairments, have physical limitations, or who are deaf.
Setting/ Group Size	Small-group instruction
Length of Lesson	30 minute lesson segments
Materials Needed	<p>All materials students will need are included: Counting Cubes, graphic organizers, markers and pens and handy zipper pouches for keeping materials organized.</p> <p>The curriculum Plus kit includes: 2 Teacher's Guides, 1 Implementation Guide, 1 Real-World Problem Solver book, Software/iPad App, 1 Poster, Graphic Organizers, Counting Cubes, Pouch, Markers and Video Simulations DVD, a total of 10 consumable Student Workbooks, the GoWorksheet Maker iPad App, a set of corresponding GoWorksheet Maker iPad activities, and samples of communication overlays.</p>
Training Required	SSD requires that teachers who implement this program go through training either provided by Attainment or via SSD
Research	The Math Skills Builder curriculum combines principles of schemabased instruction with evidence-based practices for teaching students with moderate-to-severe disabilities (Browder et al., 2008; Spooner et al., 2017). Four main components comprise the curriculum: read aloud approach, mapping the math story grammar, task analytic instruction and self-monitoring strategies, teaching students to .

Teaching to Standards: Math




Teaching to Standards Math is a research- and standards-based curriculum for secondary students to learn geometry, algebra, data analysis, and measurement concepts. It is aligned with state standards, and NCTM standards and fosters independence by systematically fading prompts as students move through the lessons. The story problems connect math concepts with students' real-life. This curriculum provides teaching framework for future lessons and standards not in package to extend curriculum for multiple years. It includes five instructional lesson options per unit with varied levels of teacher support and supports a variety of teaching and response preferences.


Level of Intervention	<u> </u> X <u> </u> replacement or <u> </u> supplemental
Major Focus	<u> </u> X <u> </u> calculation and/or <u> </u> X <u> </u> problem solving
Publisher and Contact	Attainment Company 504 Commerce Parkway Verona, WI 53593-0160 800-327-4269 Website
Cost	Curriculum: \$199.00 Additional Student Workbooks (10pack): \$69.00
Age/ Grade Levels	Secondary, ages 12-21
Setting/ Group Size	Small group setting is best, one-on-one
Length of Lesson	30-minute lesson segments
Materials Needed	The Curriculum includes a MathWork Student Book, MathWork consumable Student Workbook, Implementation Guide, 11 problem solving posters, counting manipulatives, staff training DVD, reproducible image library on disc, and PDFs of student materials and adaptations. The Curriculum Plus includes the Curriculum plus a total of 10 consumable Student Workbooks, 10 of each Extension Activity Book, the GoWorksheet Maker iPad App, a set of corresponding GoWorksheet activities, and samples of communication overlays.
Training Required	SSD requires that teachers who implement this program go through training either provided by Attainment or via SSD
Research	Two years of classroom research at the University of North Carolina at Charlotte have shown the program to be highly effective in teaching math skills aligned to NCTM standards to middle and high school students with significant intellectual disability. See more information about the research here .

<p style="text-align: center;">Access Algebra</p> 	<p>Access Algebra applies research-based strategies of systematic instruction involving algebraic concepts. It is ideal for secondary students with a moderate-to-severe developmental disability or autism. It accommodates students with unique learning needs through scripted instruction using systematic and task analytic strategies. It includes four units with story problems, pre-teaching lessons for foundational skills, graphic organizers, workbook activities, and manipulatives</p>
--	---

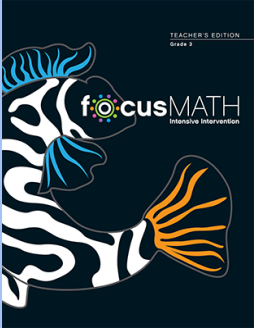
Level of Intervention	<input type="checkbox"/> replacement or <input checked="" type="checkbox"/> supplemental
Major Focus	<input checked="" type="checkbox"/> calculation and/or <input checked="" type="checkbox"/> problem solving
Publisher and Contact	Attainment Company 504 Commerce Parkway Verona, WI 53593-0160 800-327-4269 Website
Cost	Curriculum: \$299.00 Curriculum Plus: \$399.00 Student Workbooks (10 pack): \$129.00
Age/ Grade Levels	Ages 15-21/ High School
Setting/ Group Size	Small group setting is best, one-on-one
Length of Lesson	30-minute lesson segments
Materials Needed	Curriculum Includes: 1 Student Book, 4 Instructor's Guides with USB flash drive, 9 Graphic Organizers, manipulatives, and a set of 2 consumable Student Workbooks (1 for Units 1 and 2; 1 for Units 3 and 4). Curriculum Plus Includes: The Curriculum plus a total of 20 consumable Student Workbooks (10 sets of 2), the GoWorksheet Maker App , a set of corresponding GoWorksheet activities, and samples of communication overlays.
Training Required	SSD requires that teachers who implement this program go through training either provided by Attainment or via SSD
Research	Research document

<p>SIM: Strategic Math Series</p> 	<p>The Strategic Math Series focuses on how to teach basic math facts and operations to students of any age. Content is built upon the concrete-representational-abstract method of instruction. In this approach, understanding of mathematics is developed through the use of concrete objects, representational drawings, and an easy-to-learn strategy that turns all students into active problem solvers. The series includes Addition Facts 0 to 9, Addition Facts 10 to 18, Subtraction Facts 0 to 9, Subtraction Facts 10 to 18, Multiplication Facts 0 to 81, Division Facts 0 to 81, and Place Value, Addition with Regrouping, Subtraction with Regrouping</p>
Level of Intervention	<input type="checkbox"/> replacement or <input checked="" type="checkbox"/> supplemental
Major Focus	<input checked="" type="checkbox"/> calculation or <input type="checkbox"/> problem solving

Publisher and Contact	Edge Enterprises, Inc. Website level 1 & 2 KU Center for Research on Learning online Multiplication
Cost	Set of 7 Level 1 books and dice \$85.00 Set of 2 Level 2 (regrouping books) \$26.00 Or Each book separately (includes dice) \$13.50-\$14.50 Multiplication with Regrouping \$30 for PDF, \$36 for printed copy
Age/ Grade Levels	Initially developed for elementary but can be used with secondary
Setting/ Group Size	individual or small group
Length of Lesson	15-30 minutes per lesson/3-5 days week
Materials Needed	Instructor's manual all student worksheets are included in instructor's manual and need to be printed/copied; comes with Pig Dice
Training Required	None
Research	Each book was field tested with students at risk with a variety of disabilities. Pre and post test gains are specified in each book but average a 47-82% increase

<p>Corrective Math</p> 	<p>“Corrective Mathematics provides intensive support for students who have difficulty with mathematics. The series is organized into seven strategic modules that provide teacher-directed instruction on critical skills and concepts which struggling students often fail to grasp.” (Corrective Mathematics website, 4/19/19) The seven-module material is broken down into small conceptual steps.</p>
Level of Intervention	___ replacement or _x supplemental
Major Focus	_x calculation or _x problem solving
Publisher and Contact	McGraw-Hill website Phone: 800-338-3987 Fax: 800-953-8691
Cost	Approx cost per module: teacher materials \$221 Student workbook \$20 each
Age/ Grade Levels	Grades 3-12 (adult)
Setting/ Group Size	Small group, students grouped by level based on placement test
Length of Lesson	30-50 minutes (varies based on level/student)

Materials Needed	Teacher's Presentation Book, Answer Key, One workbook per student, placement tests available
Training Required	½ day training with follow-up coaching support
Research	Direct Instruction Mathematics Programs: An Overview and Research Summary Research Base for Direct Instruction Mathematics Research tied to Direct Instruction, Randomized and Non-randomized studies

<p style="text-align: center;">Focus Math</p> 	<p>“<i>focusMATH</i> is an intensive, K–6 math intervention program designed to fit any Response to Intervention (RtI) framework and work with any math program. <i>focusMATH</i> identifies at-risk students early and accelerates their learning with instruction that is intensive, balanced, and individualized. All grade levels consist of three units, each built around a specific NCTM Focal Point.”</p>
Level of Intervention	___ replacement or _x supplemental
Major Focus	_x calculation or _x problem solving
Publisher and Contact	Pearson Website Lindsay Shoemaker, M.Ed. T: 314-591-8510 lindsay.shoemaker@pearson.com
Cost	TE \$149, All 3 workbooks per student \$14.47 Manipulatives pack \$26.97 Shop
Age/ Grade Levels	K-6
Setting/ Group Size	
Length of Lesson	30-40 minutes (lessons may take 2-3 days)
Materials Needed	Teachers guide, one workbook set per student
Training Required	Pearson Online Videos SSD offers half day training?
Research	Research Document Evidence for ESSA: “Students in <i>focusMATH</i> were compared to similar students who did not receive any structured remedial assistance. On Key Math 3, the average effect size was +0.24. This qualified <i>focusMATH</i> for the ESSA “Strong” category.”

Number Worlds



“Number Worlds® 2015 is a highly-engaging, research-proven, teacher-led math intervention program that was built on rigorous state standards to bring math-challenged PreK-8 students up to grade level with Real World Applications. Number Worlds helps struggling learners in Response to Intervention Tiers 2 and 3 achieve math success and quickly brings them up to grade level by intensively targeting the most important standards.”

Level of Intervention

x replacement or _x_ supplemental

Major Focus

x calculation or _x_ problem solving

Publisher and Contact

[Website](#)
 Tanya Winchester
 National Achievement Specialist
 McGraw-Hill | School Group
 C: 316-218-5448
tanya.winchester@mheducation.com

Cost

Teacher Kit & 6 year subscription per level- \$717.21
 Student bundle for 5 students- \$220.68

Age/ Grade Levels

PreK-8

Setting/ Group Size

Whole group/ Small group - homogenous preferred

Length of Lesson

5 days a week
 30, 60, or 90 minute lesson options

Materials Needed

Teacher kit, workbook for each student

Training Required

McGraw Hill offers onsite training- cost
 Online professional learning environment

Research

[Research Documents](#)