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# Special Education Math Curriculum

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High-leverage Practices in Special Education

Gateway to Problem Solving

Math Curriculum for Gifted Students

Response to Intervention in Math

Teaching Mathematics to Middle School Students with Learning Difficulties

Special Education Math Curriculum Guide

Differentiating Math Instruction, K-8

Teaching Inclusive Mathematics to Special Learners, K-6

Driven by Data

ABA Curriculum for the Common Core

Teaching in Tandem

Differentiated Instruction for the Middle School Math Teacher

Go Maths

Teaching Mathematics to Students with Learning Disabilities

Activating the Untapped Potential of Neurodiverse Learners in the Math Classroom

Math Curriculum for Gifted Students (Grade 4)

Teaching Language Arts, Math, & Science to Students with Significant Cognitive

## Disabilities

A Math Curriculum for a Special Education Class

Curriculum-based Measurement

Math Instruction for Students with Learning Difficulties

Special Education Preschool Math Curriculum

Upper Elementary Math Lessons

Achieving Fluency

The Efficacy of the Do The Math Intervention in the Math Achievement of Special Education Elementary Students

Choosing and Using Curriculum

Integrating Manipulatives Into the General Education and Special Education Math Curriculum

Mathematics for Children with Severe and Profound Learning Difficulties

Determining the Effectiveness of the Saxon Math Program and the Ready Common Core Program for Students with Disabilities

A Mathematics Activity Curriculum for Early Childhood and Special Education

The RTI Approach to Evaluating Learning Disabilities

More Language Arts, Math, and Science for Students with Severe Disabilities

Teaching Elementary Mathematics to Struggling Learners

Mathematics Curriculum, Teacher Professionalism, and Supporting Policies in Korea

and the United States  
Mathematics and Science for Students with Special Needs  
Adapted Math Curriculum For Students With Mild to Moderate Support Needs in an  
Inclusive Elementary Classroom  
RTI and Mathematics  
Math Instruction for Students with Learning Problems  
Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5  
Classworks as a Means to Gaining Equity in the General Education Math Classroom  
Perceptions of Students Receiving Special Education Services

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**MELISSA PRECIOUS**

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**High-leverage**

**Practices in Special**

**Education** John Wiley &  
Sons

Differentiated Instruction

for the Middle School  
Math Teacher is a  
practical and easy-to-use  
resource for teaching a  
standards-based math  
curriculum to all learners.  
It gives you effective ways  
to present math concepts,  
shows how to provide  
opportunities for guided

practice, and offers ideas  
for modifying the material  
to provide access to the  
same content standard for  
all students in the  
inclusive classroom. This  
book also contains key  
strategies for  
collaborating with other  
professionals, suggestions

for involving the students' families by tying math concepts to students' everyday lives, and valuable assessment strategies. The lessons in the book cover middle school math topics correlated to the standards of the National Council of Teachers of Math, ranging from numbers and operations to problem solving and reasoning. Each lesson includes: Instructions for presenting the lesson to the whole class  
Worksheets designed to help review and reinforce

the concepts presented in each lesson A section on how to adapt the lesson for the inclusive classroom, including descriptions of different stations for different learners A home-school connection with family-based everyday math activities Suggestions for how to assess students' grasp of the concepts presented in the lesson  
*Gateway to Problem Solving* Taylor & Francis Math Instruction for Students with Learning Problems, Second Edition provides a research-based

approach to mathematics instruction designed to build confidence and competence in pre- and in-service PreK-12 teachers. This core textbook addresses teacher and student attitudes toward mathematics, as well as language issues, specific mathematics disabilities, prior experiences, and cognitive and metacognitive factors. The material is rich with opportunities for class activities and field extensions, and the second edition has been

fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis.

*Math Curriculum for Gifted Students* Lulu.com Silva (mathematics education, San Jose State U.) provides an expanded framework of understanding for K-6 educators and educational specialists to use when teaching students who are having difficulties learning mathematics.

*Response to Intervention*

*in Math* Rowman & Littlefield Publishers This first-of-its-kind, practical, interactive, "how to" guide gives today's busy educators hands-on help for understanding and effectively implementing the mathematics curriculum with the RTI model-and improving student conceptual learning in mathematics. This practical guide is designed to help educators gain knowledge about Response to Instruction/Intervention (RTI) as it relates to

mathematics, and to help them consider and then act on their critical roles within the RTI process in the classroom and the school. Here is information that can be put to immediate use within K-8 classrooms in order to implement RTI in mathematics successfully and to meet the instructional goals in mathematics for all students. The authors, a mathematics teacher and a special education teacher, provide clear definitions of common language, core,

implementation practices, and procedures as related to or involved with RTI, and show readers the connections among teachers' knowledge and skills and their important use with RTI. Included is a continuous case study of a mathematics teacher as she implements RTI in her classroom; clear, evidence-based content; scenarios; examples; resources and activities; plus modeling, description, and reflection on the key learning outcomes of RTI.  
Teaching Mathematics to

Middle School Students with Learning Difficulties  
 Corwin Press  
 The book will covers a wide range of approaches to teaching and learning and demonstrates how mathematics can be related to personal and social development, communication and thinking skills. Written with the non-specialist in mind and including plenty of practical examples, it will make useful reading for teachers in mainstream and special schools, and learning support assistants. Early

years practitioners and teachers in training may find the book useful for its descriptions of how children acquire their foundation of early mathematics and numeracy skills.  
Special Education Math Curriculum Guide  
 Routledge  
 Early Numeracy Interview-Revised is an assessment for students in grades K-4. The interview is the second book in the series, Elementary Math Intervention. The interview may be used by math curriculum

coordinators, math coaches, elementary classroom teachers and special education teachers. It is a revision to the Early Numeracy Interview from Australia, which was part of the Early Numeracy Research Project. This revised interview is much shorter, which allows for it to be used in the context of Response to Intervention. Differentiating Math Instruction, K-8 Brookes Publishing Company This richly updated third edition of Math Instruction for Students with Learning

Difficulties presents a research-based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK- 12 teachers. Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics, this essential text addresses teacher and student attitudes towards mathematics as well as language issues, specific mathematics disabilities,

prior experiences, and cognitive and metacognitive factors. Chapters on assessment and instruction precede strands that focus on critical concepts. Replete with suggestions for class activities and field extensions, the new edition features current research across topics and an innovative thread throughout chapters and strands: multi-tiered systems of support as they apply to mathematics instruction. **Teaching Inclusive Mathematics to Special**

**Learners, K-6** Taylor & Francis

With the growing support of special education and changes in legislation, individuals with disabilities are being taught in inclusive environments alongside their peers. Inclusive education provides students with varying disabilities the opportunity to learn in a general education setting while receiving appropriate aids and supports. These supports are in the form of accommodations and/or

modifications and allow students to participate and learn the core content curriculum related to the state standards and students' individual goals. General education teachers and education specialists are tasked with providing adapted curriculum for students with disabilities. With limited exposure and training in curriculum adaptations, students may not be receiving the appropriate accommodations and modifications that grant students access to the

general education curriculum. Sample adaptations and training is needed for educators to understand why they should be adapting curriculum, and how they can do so. This project explores the importance of adapting curriculum for students with mild to moderate support needs in inclusive elementary classrooms. Based on the findings in the literature review, this project presents adapted versions of math lessons from various modules along with assessments for the



modules for fourth-grade students. The project gives teachers examples of various ways curriculum can be adapted along with showing the importance of utilizing an adapted curriculum in better supporting their students with disabilities.

Driven by Data ASCD

This book provides descriptive cases, accompanied by analytic commentaries, of nine upper-elementary grade mathematics lessons that represent an array of sound teaching practices.

The cases focus on various mathematics topics and were written from authentic lessons taught by regular classroom teachers to diverse groups of students. Each lesson contains elements of sound instructional practice as well as potential dilemmas from which both preservice and in-service teachers can benefit.

**ABA Curriculum for the Common Core** Taylor & Francis

Special education teachers, as a significant

segment of the teaching profession, came into their own with the passage of Public Law 94-142, the Education for All Handicapped Children Act, in 1975. Since then, although the number of special education teachers has grown substantially it has not kept pace with the demand for their services and expertise. The roles and practice of special education teachers have continuously evolved as the complexity of struggling learners unfolded, along with the

quest for how best to serve and improve outcomes for this diverse group of students. High-Leverage Practices in Special Education defines the activities that all special educators needed to be able to use in their classrooms, from Day One. HLPs are organized around four aspects of practice collaboration, assessment, social/emotional/behavioral practices, and instruction because special education teachers enact practices in these areas in

integrated and reciprocal ways. The HLP Writing Team is a collaborative effort of the Council for Exceptional Children, its Teacher Education Division, and the CEEDAR Center; its members include practitioners, scholars, researchers, teacher preparation faculty, and education advocates--Amazon.com [Teaching in Tandem](#) Routledge "This pioneering curriculum contains powerful programs to teach each First Grade Common Core standard

for both English Language Arts and Math. The curriculum has been created exclusively for students in special education settings using the evidence-based principles of Applied Behavior Analysis (ABA). Completely unique, this curriculum drills down into each standard and breaks it into teachable steps. Programs are presented in a format that supports data collection and ease of use. Clear instructions detail the Teaching Procedure, Discriminative Stimulus, and Materials

required for teaching. Each standard lists several targets that demonstrate the component steps and skills required for mastery. A thorough "how-to" guide presents the main tenets of ABA, giving staff an accessible understanding of motivation and reinforcement, pairing, prompting, generalization, natural environment teaching, preference assessment, and data collection. In addition, comprehensive data sheets are included, along

with samples of how to complete them."--Page [4] of cover.

*Differentiated Instruction for the Middle School Math Teacher* Corwin Press

All students deserve access to a rich and meaningful math curriculum. This book guides middle and high school teachers toward providing all learners – including neurodiverse students – with the support necessary to engage in rewarding math content. Students who receive special education

services often experience a limited curriculum through practices that create long-term disadvantages and increase gaps in learning. The tools and strategies in this book help teachers better understand their students to move them closer to their potential. Chapters include differentiation, assessment, classroom structure, and learning targets. Both general education math teachers who have not been trained in special education support and

special education teachers with a limited background in standards-based math pedagogy will learn new skills to improve their teaching from this practical resource.

MacMillan Publishing Company

Have you ever asked yourself any of these questions: What am I doing? Why am I doing it that way? Are there other ways? Which way is best for my family? Where do I get the resources I need to make it happen? How do I avoid over-spending

on curriculum? This book is a wealth of information! Topics and chapters include: Comparison of reading programs Comparison of math programs Developing written expression Adapting materials for special situations. General homeschooling resources Resources for blind, deaf and speech language Curriculum types and styles How to take a snapshot of your child's progress This book is a two-hour read that will provide you with direction, comfort and the

means to make your homeschool some together in the ways you dream of. It will help you clear your brain and know your mind and then find the resources you need to carry out your newly discovered vision. You don't want to start homeschooling without it! *Go Maths* Brookes Publishing Company This seminal text is like no other, successfully blending the best of what technology has to offer with guidelines for meeting the objectives set forth by the Common

Core.

*Teaching Mathematics to Students with Learning Disabilities* John Wiley & Sons

The Math Curriculum for Gifted Students series: Provides gifted and advanced learners with challenging activities to extend their mathematical thinking. Includes lessons, activities, and extensions that are aligned to national standards. Is designed to provide high-ability learners advancement beyond the general curriculum. Is

ideal for gifted classrooms or gifted pull-out groups. Was developed by the Center for Gifted Education at William & Mary. In Math Curriculum for Gifted Students (Grade 4), the 24 lessons cover mathematics content for grade 4 and are divided into five sections: number and operations in Base Ten, operations and algebraic thinking, number and operations-fractions, measurement and data, and geometry. Each lesson includes a teacher page that outlines the Common Core State

Standards and mathematical practices covered, estimated time, key terms, materials, and objectives; a challenging activity to allow students to explore the concepts in depth; practice problems; and an assessment similar to CCSS-based grade-level standardized assessments.

### **Activating the Untapped Potential of Neurodiverse Learners in the Math Classroom**

Allyn & Bacon

The Math Curriculum for Gifted Students series: Provides gifted and

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assessments.

**Math Curriculum for Gifted Students (Grade 4)** Guilford Publications

A followup to the landmark bestseller *Teaching Language Arts, Math, and Science to Students with Significant Cognitive Disabilities*, this important text prepares teachers to ensure more inclusion, more advanced academic content, and more meaningful learning for their students.

[Teaching Language Arts, Math, & Science to Students with Significant Cognitive Disabilities](#)

Routledge  
Going beyond functional and access skills, this groundbreaking text shows educators how to make the general curriculum accessible and help students progress in academic content areas.;  
**A Math Curriculum for a Special Education Class** Corwin Press  
Developed specifically to overcome problems with traditional standardized instruments, curriculum-based measurement (CBM) has steadily increased in educational use. These brief

assessment probes of reading, spelling, written expression, and mathematics serve to quantify student performance as well as to enhance academic achievement. Their widening use as a means of evaluation and ultimately of instruction, has created a corresponding need to expand the applications of this methodology to diverse populations. This new volume addresses that need by focusing on the broader application of CBM, providing practical

new measures, as well as detailing their use with specific student groups.  
**Curriculum-based Measurement** Teaching Mathematics to Middle School Students with Learning Difficulties  
This is a study about which modifications to conceptual math strategies for the newly adopted Cognitively Guided Instruction (CGI) curriculum are most effective when used with students on Individualized Education Plans (IEP) for mild to moderate disabilities. Three units of

the CGI curriculum (addition, subtraction, and multiplication) will be modified for this research. CGI is currently being implemented in a mid-sized suburban community in the greater Orange County area, but the curriculum has not been modified for special

education teachers. The goal of this research is to take grade level standards that are being addressed in CGI and modify them to the academic levels of the students within this study (give access to all students). The curriculum will include several different types of daily

problems in addition to a direct instruction teacher manual for each lesson. The goal of this research is learn how CGI can better support students with mild to moderate disabilities in math to improve their understanding of mathematics concepts.

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