

aimsweb math probes

aimsweb math probes are essential tools in educational assessment, helping teachers and administrators monitor student progress in mathematics. This article provides an in-depth look at aimsweb math probes, exploring their purpose, structure, implementation, and benefits. Readers will gain an understanding of how these probes support data-driven instruction, identify student strengths and weaknesses, and contribute to academic growth. Whether you are an educator seeking effective assessment solutions or a school leader exploring benchmarking options, this comprehensive guide will equip you with actionable insights. Topics include the design of aimsweb math probes, their role in Response to Intervention (RTI), best practices for administration, and strategies for data analysis. Discover how aimsweb math assessment tools can transform math instruction and support your students' success.

- What Are aimsweb Math Probes?
- Key Features of aimsweb Math Probes
- Types of aimsweb Math Probes
- Implementation in the Classroom
- Using aimsweb Math Data for Instruction
- Benefits of aimsweb Math Probes
- Best Practices for Effective Use
- Common Challenges and Solutions
- Conclusion

What Are aimsweb Math Probes?

aimsweb math probes are brief, standardized assessments designed to measure students' mathematical skills and fluency. Developed as part of the aimsweb system, these probes provide reliable data for educators to track student progress over time. The probes are curriculum-based measures (CBMs) that focus on specific math concepts aligned with grade-level expectations. By delivering quick, targeted assessments, aimsweb math probes help identify students' strengths and areas needing improvement, supporting data-driven instructional decisions.

These math probes are typically administered multiple times throughout the academic year, allowing for ongoing progress monitoring. Each probe presents students with grade-appropriate math problems, assessing skills such as computation, problem-solving, and mathematical reasoning. The standardized nature of aimsweb math probes ensures consistency in testing and makes it easier to compare results across classrooms, schools, or districts.

Key Features of aimsweb Math Probes

aimsweb math probes possess several key features that make them valuable assessment tools for educators. Designed for efficiency, accuracy, and ease of use, these probes support effective student monitoring and instructional planning. Understanding these features helps educators maximize the benefits of aimsweb math assessments.

Standardized Administration

aimsweb math probes are administered under uniform conditions to ensure fair and consistent assessment. Standardization allows educators to reliably compare student performance and track growth over time, reducing biases or inconsistencies in testing.

Grade-Level Alignment

Each aimsweb math probe is carefully aligned with grade-level standards and learning objectives. This alignment ensures that the assessment measures skills and knowledge relevant to students' current instructional level, providing meaningful data for teachers and administrators.

Brief and Targeted Format

The probes are designed to be brief, typically taking only a few minutes to administer. Their targeted nature allows educators to focus on specific math skills, such as number sense, computation, or problem-solving, without overwhelming students.

Multiple Forms for Progress Monitoring

aimsweb math probes offer multiple equivalent forms for each grade and skill. These alternate forms enable ongoing progress monitoring throughout the year,

preventing practice effects and ensuring that data accurately reflects student learning.

- Standardized administration procedures
- Alignment with grade-level math standards
- Brief, focused assessments
- Multiple equivalent forms
- Immediate, actionable data

Types of aimsweb Math Probes

aimsweb math probes are available in various types, each designed to assess different mathematical skills and concepts. Choosing the appropriate probe depends on the instructional goals and the needs of the students being assessed.

Computation Probes

Computation probes focus on students' ability to accurately and efficiently perform arithmetic operations. These probes typically include addition, subtraction, multiplication, and division problems. Computation probes are ideal for measuring mathematical fluency and identifying students who may need additional support in basic math skills.

Concepts and Applications Probes

Concepts and Applications probes assess students' understanding of mathematical concepts and their ability to apply knowledge to solve real-world problems. These probes may include tasks related to geometry, measurement, data analysis, and word problems, providing insight into higher-order mathematical thinking.

Early Numeracy Probes

For younger students, early numeracy probes evaluate foundational skills such as number recognition, counting, and basic number operations. These probes

help educators identify students at risk of falling behind in math and guide early intervention efforts.

1. Computation probes (arithmetic fluency)
2. Concepts and Applications probes (problem-solving and reasoning)
3. Early Numeracy probes (foundational math skills for early learners)

Implementation in the Classroom

Integrating aimsweb math probes into classroom practice requires thoughtful planning and execution. Educators must ensure that assessments are administered consistently and data is used effectively to support student learning. Implementation steps may vary depending on school policies and resources, but some best practices are universal.

Scheduling and Frequency

Math probes are typically administered at regular intervals, such as monthly or quarterly, to monitor student progress. Establishing a consistent schedule allows educators to track growth and make timely instructional adjustments.

Administration Procedures

Teachers should follow standardized administration procedures to ensure data reliability. This includes providing clear instructions, maintaining a quiet environment, and timing assessments appropriately. Training staff on aimsweb protocols helps maintain fidelity in assessment.

Student Engagement and Motivation

Engaging students during assessment is essential for obtaining valid results. Educators can motivate students by explaining the purpose of the probes, celebrating growth, and providing constructive feedback.

Using aimsweb Math Data for Instruction

Data collected from aimsweb math probes is a valuable resource for informing instruction and intervention. By analyzing assessment results, educators can identify trends, group students by skill level, and tailor lessons to target specific needs.

Identifying Skill Gaps

aimsweb math data highlights areas where students are struggling, enabling teachers to address skill gaps before they become significant barriers to learning. This proactive approach supports early intervention and remediation.

Grouping Students for Instruction

Assessment results can be used to create flexible instructional groups based on student performance. Grouping allows educators to differentiate instruction, providing targeted support for struggling learners and enrichment for advanced students.

Monitoring Response to Intervention (RTI)

aimsweb math probes are often used within RTI frameworks to monitor the effectiveness of interventions. Regular progress monitoring helps educators determine whether students are responding to support and guides decisions about adjusting instructional strategies.

Benefits of aimsweb Math Probes

aimsweb math probes offer numerous benefits for educators, students, and schools. Their efficiency, reliability, and alignment with instructional goals make them a preferred choice for progress monitoring and benchmarking.

- Provides timely and actionable data for instructional planning
- Supports early identification of students at risk for math difficulties
- Enables ongoing progress monitoring and data-driven decision making

- Facilitates targeted interventions within RTI frameworks
- Encourages student growth and achievement in mathematics

Best Practices for Effective Use

Maximizing the impact of aimsweb math probes requires adherence to established best practices. Educators should focus on consistent administration, effective data analysis, and collaborative decision-making to support student success.

Train Staff Thoroughly

All educators involved in administering aimsweb math probes should receive comprehensive training. Understanding the assessment process ensures accurate data collection and interpretation.

Integrate Data into Instructional Planning

Incorporate assessment results into lesson planning and instructional strategies. Use data to differentiate instruction, set goals, and guide interventions for individual students or groups.

Foster a Data-Driven Culture

Encourage collaboration among teachers, administrators, and support staff. Sharing data and insights fosters a culture of continuous improvement focused on student achievement.

Common Challenges and Solutions

While aimsweb math probes are powerful assessment tools, educators may encounter challenges during implementation. Addressing these issues proactively ensures that assessment data remains valid and useful.

Ensuring Student Engagement

Students may feel anxious or disengaged during assessments. To alleviate this, educators should create a supportive environment, explain the purpose of the probes, and reinforce positive attitudes toward assessment.

Maintaining Assessment Fidelity

Variations in administration can compromise data reliability. Schools should provide clear protocols and ongoing training to ensure standardized procedures are followed.

Interpreting and Acting on Data

Teachers may struggle to interpret assessment data or translate findings into actionable strategies. Professional development and collaborative data analysis sessions can support effective use of aimsweb math data.

Conclusion

aimsweb math probes are invaluable tools for monitoring student progress, guiding instruction, and supporting intervention in mathematics. Their standardized design, alignment with grade-level standards, and flexibility make them an essential component of data-driven education. By implementing aimsweb math probes effectively, educators can foster student growth, address learning gaps, and promote academic success in mathematics.

Q: What are aimsweb math probes?

A: aimsweb math probes are brief, standardized assessments designed to measure students' mathematical skills, fluency, and progress. They are part of the aimsweb system for curriculum-based measurement and progress monitoring in education.

Q: How do aimsweb math probes support Response to Intervention (RTI)?

A: aimsweb math probes provide frequent, reliable data on student performance, allowing educators to monitor the effectiveness of interventions, adjust instruction, and make informed decisions about student support within RTI frameworks.

Q: What types of math skills do aimsweb math probes assess?

A: aimsweb math probes assess a range of skills, including arithmetic computation, problem-solving, mathematical reasoning, and foundational early numeracy skills, depending on the grade level and probe type.

Q: How often should aimsweb math probes be administered?

A: aimsweb math probes are typically administered at regular intervals, such as monthly or quarterly, to monitor student progress and inform instructional adjustments.

Q: Can aimsweb math probes be used for all grade levels?

A: Yes, aimsweb math probes are available for various grade levels, from early elementary to middle school, with assessments tailored to age-appropriate math standards and skills.

Q: What are the benefits of using aimsweb math probes in the classroom?

A: Benefits include timely data for instructional planning, early identification of students at risk, ongoing monitoring of progress, targeted interventions, and support for student achievement in mathematics.

Q: How do educators use aimsweb math data to improve instruction?

A: Educators analyze aimsweb math data to identify skill gaps, group students by performance levels, tailor instruction, and evaluate the impact of teaching strategies and interventions.

Q: What are common challenges in implementing aimsweb math probes?

A: Common challenges include ensuring student engagement, maintaining standardized administration, and interpreting assessment data for actionable instructional decisions.

Q: Do aimsweb math probes align with state and national math standards?

A: Yes, aimsweb math probes are designed to align with grade-level math standards, ensuring that assessments measure skills and concepts relevant to current curriculum guidelines.

Q: How can teachers motivate students during aimsweb math assessments?

A: Teachers can motivate students by clearly explaining the purpose of the assessments, celebrating growth, providing positive feedback, and creating a supportive testing environment.

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Aimsweb Math Probes: A Comprehensive Guide for Educators

Are you looking for a reliable and efficient way to assess your students' math skills? Aimsweb Math Probes might be the answer. This comprehensive guide dives deep into Aimsweb Math Probes, exploring their features, benefits, and effective implementation strategies. We'll unpack how these probes can help you identify learning gaps, track progress, and ultimately, improve student outcomes in mathematics. Get ready to learn how Aimsweb can transform your math instruction!

What are Aimsweb Math Probes?

Aimsweb Math Probes are a series of brief, standardized assessments designed to measure student performance in key areas of mathematics. Unlike lengthy, traditional tests, these probes focus on specific skills, allowing for frequent monitoring of progress and quick identification of areas needing intervention. They are computer-adaptive, meaning the difficulty adjusts based on the student's responses, providing a highly accurate picture of their abilities. This efficiency is crucial for busy

educators who need quick, reliable data to inform their teaching practices.

Key Features of Aimsweb Math Probes:

Efficiency: Short administration times allow for frequent monitoring.

Specificity: Focus on specific math skills, making identification of weaknesses easier.

Computer-Adaptive: Difficulty adjusts based on student performance for accurate results.

Data-Driven Insights: Provides valuable data for individualized instruction and intervention.

Progress Monitoring: Tracks student growth over time, demonstrating the effectiveness of interventions.

Standardized: Allows for comparison to national norms.

Types of Aimsweb Math Probes

Aimsweb offers a variety of math probes catering to different grade levels and skill sets. These probes typically cover foundational areas like:

Computation: Addition, subtraction, multiplication, and division facts and fluency.

Concepts and Applications: Understanding of mathematical concepts and their application to problem-solving.

Number Sense: Understanding of number relationships and operations.

Measurement: Understanding and application of measurement concepts.

Geometry: Understanding of geometric shapes, properties, and relationships.

Algebra: Basic algebraic concepts and problem-solving.

The specific probes available will vary depending on the grade level and the specific Aimsweb package purchased. It's crucial to select the probes that best align with your curriculum and student needs.

Utilizing Aimsweb Math Probes Effectively: A Step-by-Step Guide

Implementing Aimsweb Math Probes successfully requires a structured approach:

1. Planning and Preparation:

Begin by identifying your students' specific needs and selecting the appropriate probes. Familiarize yourself with the administration procedures and scoring guidelines provided by Aimsweb.

2. Administration:

Administer the probes according to the prescribed guidelines. Ensure a calm and supportive testing environment to minimize student anxiety.

3. Data Analysis:

Carefully analyze the data provided by Aimsweb. Focus on identifying specific skill gaps and trends in student performance.

4. Intervention and Instruction:

Develop targeted interventions based on the data analysis. Use the results to inform your instruction, focusing on areas where students need the most support.

5. Progress Monitoring:

Administer the probes regularly to track student progress and adjust interventions as needed. This iterative process is key to maximizing the effectiveness of Aimsweb.

Benefits of Using Aimsweb Math Probes

The use of Aimsweb Math Probes offers numerous advantages for both educators and students:

Improved Instruction: Data-driven decisions lead to more effective and targeted teaching strategies.

Early Identification of Learning Gaps: Quickly identify students who are struggling and provide timely intervention.

Increased Student Achievement: Targeted interventions lead to improved student outcomes in mathematics.

Efficient Progress Monitoring: Easily track student progress over time and demonstrate the effectiveness of interventions.

Objective Assessment: Provides objective data to inform teaching decisions, reducing reliance on

subjective judgments.

Data-Based Decision Making: Provides the necessary data to justify interventions and demonstrate their effectiveness to parents and administrators.

Conclusion

Aimswest Math Probes are a powerful tool for educators seeking to improve student achievement in mathematics. By providing efficient, data-driven insights, these probes empower teachers to deliver targeted instruction and track student progress effectively. The key to success lies in careful planning, accurate administration, thorough data analysis, and the consistent implementation of data-driven interventions. Embrace the power of Aimswest and transform your math instruction!

FAQs

1. How often should I administer Aimswest Math Probes? The frequency depends on the student's needs and the specific goals. Weekly or bi-weekly administration is common for progress monitoring, but adjustments may be necessary based on individual student data.
2. What if a student consistently scores low on a specific probe? Consistent low scores indicate a need for targeted intervention focused on the specific skill assessed by that probe. Consult the Aimswest resources and consider collaborating with special education staff or other support personnel.
3. Are Aimswest Math Probes aligned with common core standards? Aimswest strives to align its probes with current educational standards, including Common Core. However, it's essential to check the specific alignment of the probes you select with your state or district standards.
4. How can I access Aimswest Math Probes? Access to Aimswest Math Probes requires purchasing a subscription through the Aimswest website or through your school or district.
5. What kind of training is available for using Aimswest? Aimswest typically provides training resources, including online tutorials and webinars, to support educators in effectively using their platform and interpreting the data. Contact your Aimswest representative or check their website for available training options.

aimswest math probes: Enhancing Instructional Problem Solving John C. Begeny, Ann C. Schulte, Kent Johnson, 2012-05-09 This book presents a schoolwide model of instructional support designed to make the most of available time, resources, and personnel—one that is also fully compatible with other problem-solving models, such as response to intervention. The authors provide a comprehensive and cohesive framework for linking assessment and intervention. They show how to interweave evidence-based instruction with targeted professional development and

other components that support improved learning outcomes for all K-8 students. Helpful tables describe dozens of research-based assessments and interventions in reading, writing, and math. In a large-size format with lay-flat binding to facilitate photocopying, the volume includes more than 20 reproducible worksheets and forms. The companion website features additional reproducibles and supplemental materials for use in conjunction with the book. This book is in The Guilford Practical Intervention in the Schools Series.

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Edition Reflects current education policy and best practices. Seminal chapter on problem solving by Stanley L. Deno has been updated with a revised model. All chapters now discuss assessment in the context of multi-tiered systems of support. Chapter on working with culturally and linguistically diverse learners. Chapter on graphing student data. See also *Response to Intervention, Second Edition*, by Rachel Brown-Chidsey and Mark W. Steege, which provides step-by-step guidelines and practical tools for implementing RTI schoolwide.

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and second (2008) editions' title pages.

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board certified behavior analysts - Includes forms, tables, flowcharts and other visual aids to assist in BCBA work - Concludes each chapter with a practice guidelines checklist - Features contributions from notable experts in distinct specialty areas - Helps readers build skills and competencies as an applied behavior analyst

aimsweb math probes: A Practical Guide to Building Professional Competencies in School Psychology Timothy M. Lionetti, Edward P. Snyder, Ray W. Christner, 2010-10-28 Designed as a research-based yet matter-of-fact guide for beginning and future scientist-practitioners, A Practical Guide to Building Professional Competencies in School Psychology skillfully augments the reader's training, supervision, and experience by providing a framework for honing essential skills in the field. This reader-friendly, evidence-based text encourages the continuing development of expertise in communication and collaborative skills, diversity awareness, technical knowledge, and other domains critical to building and maintaining an ethical, meaningful practice. Each chapter in this must-have volume examines a core area of expertise in depth, and provides checklists (linked to competencies set out in NASP's Blueprint III) and the Development and Enhancement of Competencies Assessment Form are included to enable readers to gain a more complete understanding of their professional strengths and needs. The skill sets covered include: Developing cross-cultural competencies. Evaluating students with emotional and behavioral problems. Assessing student skills using a variety of approaches. Preventing and intervening in crisis situations. Consulting with families, colleagues, and the community. Facilitating mental health services in the school setting. A Practical Guide to Building Professional Competencies in School Psychology provides an invaluable set of professional development tools for new practitioners and graduate students in school psychology.

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available online. This book is in The Guilford Practical Intervention in the Schools Series, edited by Sandra M. Chafouleas.

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aimsweb math probes: Handbook of Reading Assessment Sherry Mee Bell, R. Steve McCallum, 2015-07-30 The Handbook of Reading Assessment, Second Edition, covers the wide range of reading assessments educators must be able to use and understand to effectively assess and instruct their students. Comprehensive and filled with numerous authentic examples, the text addresses informal classroom based assessment, progress monitoring, individual norm-referenced assessment, and group norm-referenced or 'high-stakes' testing. Coverage includes assessment content relevant for English language learners and adults. A set of test guidelines to use when selecting or evaluating an assessment tool is provided. New and updated in the Second Edition Impact on reading assessment of Common Core Standards for literacy; increased top-down focus on accountability and high stakes tests; innovations in computerized assessment of reading Latest developments in Response to Intervention (RTI) model, particularly as they impact reading assessment International Reading Association standards for reading educators and brief discussion of International Dyslexia Association standards Types of reading assessment, including discussion of formative versus summative assessment Expanded coverage of assessment of reading motivation Expanded coverage of writing assessment New and revised assessments across genres of reading assessment Companion Website: numerous resources relevant to reading and writing assessment; suggestions for evidence-based instructional practices that can be linked to assessment results; PowerPoint slides; test bank; study guides; application exercises

aimsweb math probes: The Essential Guide to RTI Silvia L. DeRuvo, 2010-08-13 A practical, hands-on guide that helps teachers fulfill the promise of RTI Filled with practical tools and step-by-step guidelines, this book shows teachers how to implement RTI effectively. This valuable resource helps teachers assess a school's or classroom's readiness to begin the implementation process, and offers extensive resources to help educators identify appropriate screening and progress monitoring tools for students. DeRuvo provides dozens of effective research-based interventions and instructional strategies that teachers can implement immediately in their classrooms, and offers guidelines for selecting additional curricula and strategies to support students with diverse needs. Includes easy and efficient progress monitoring strategies to measure RTI effectiveness Written by veteran educator and active teacher trainer, Silva DeRuvo Provides helpful advice for effective collaboration between teachers The book includes strategies for joint curriculum mapping, as well as for measuring student mastery of identified content area standards.

aimsweb math probes: *WISC-IV Clinical Assessment and Intervention* Aurelio Prifitera, Donald H. Saklofske, Lawrence G. Weiss, 2008-08-08 The Wechsler Intelligence Scale for Children: Fourth Edition (WISC-IV) is one of the most often used measures to assess intelligence and cognitive functions in children, ages 6-16 years. The second edition of the WISC-IV Clinical Assessment and Intervention will include new information obtained from the clinical use of the WISC-IV in practice. Information on the basic use of the assessment tool is condensed from three chapters into one, with four new chapters discussing how to use and interpret WISC-IV with additional clinical populations. These new populations include pervasive Developmental Disorders including autism, Social and emotional disorders, psychiatric disorders, and medical disorders that may affect intelligence. An additional new chapter discusses intervention planning across patient populations. Each of the chapters (revised original chapters and new chapters) will additionally include case studies

including diagnosis and intervention. Overall, the material in the book is 65% changed, new, and updated. These changes make the second edition better able to meet a clinician's needs in using and interpreting this test. - Inclusion of case studies illustrating the clinical applications of the WISC-IV in assessment and program planning - Intervention recommendations following from assessment to diagnosis - Introductory chapter illustrating the relationships between the WISC-IV index scores and intervention planning - New chapters on Learning Disabilities, emotionally disturbed children, systematic illness, and Autism Spectrum Disorders - Specialized chapters on neuropsychological applications, executive functioning, and cultural issues - Additional information to aid test interpretation including extended norms for gifted children and the Cognitive Proficiency Index - All chapters revised to reflect data obtained from the test in clinical use

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Instruction, Grades 4-10 Leslie Laud, 2011-03-28 Seven easy steps to differentiating math instruction for busy teachers Staff development expert Leslie Laud provides a clear roadmap for using formative assessment to differentiate mathematics instruction for students in Grades 4-10. She presents a comprehensive framework of seven research-based practices that show teachers how to: Get started and establish norms Implement formative assessment Create tiered lessons Manage a multitasking classroom effectively Tested, reviewed, and enhanced by experienced math teachers, the book includes practical examples, reproducibles, and student activities that are easy for busy teachers to implement immediately.

aimsweb math probes: Dropout Prevention C. Lee Goss, Kristina J. Hokkanen, 2014-05-09

Meeting a crucial need, this book presents effective prevention and intervention methods that can help all students stay--and succeed--in school. The authors emphasize that dropout is a process, not an event. They provide tools for identifying dropout risk (including academic, behavior, and attendance problems) and strategies for problem solving and data-based decision making at the elementary and secondary levels. Illustrative case examples and reproducible checklists and tools enhance this user-friendly resource. The print book has a large-size format to facilitate photocopying. Purchasers also get access to a Web page where they can download and print the reproducible materials. This book is in The Guilford Practical Intervention in the Schools Series, edited by Sandra M. Chafouleas.

aimsweb math probes: Curriculum-Based Assessment for Instructional Design Matthew

K. Burns, David C. Parker, 2014-03-19 Accessibly written and featuring illustrative case examples, this book provides a complete guide to curriculum-based assessment for instructional design (CBA-ID). CBA-ID comprises easy-to-implement, reliable, and valid procedures for determining a student's instructional level and individualizing instruction by developing tasks that are neither too hard nor too easy. It is a key tool for supporting K-8 students who are struggling in reading, math, or writing, and is ideally suited for intervention planning within multi-tiered systems of support. In a convenient large-size format, the book includes reproducible forms. Purchasers also get access to a Web page where they can download and print the reproducible materials. This book is in The Guilford Practical Intervention in the Schools Series, edited by Sandra M. Chafouleas.

aimsweb math probes: Academic Assessment and Intervention Steven Little, Angeleque

Akin-Little, 2014-01-21 Serving students with academic deficiencies necessitates communication and collaboration among professionals from several disciplines. Academic Assessment and Intervention brings together divergent approaches in order to demonstrate that scientific evidence, rather than biases or previous practice, must determine assessment practices that are selected and used for particular purposes. Similar to a handbook in its comprehensive topical coverage, this edited collection provides a contextual foundation for academic assessment and intervention; describes both norm-referenced and curriculum-based assessment/measurement in detail; considers the implications of both of these assessments on ethnically diverse populations; provides a clear link between assessment, evidence-based interventions and the RTI model; and considers other important topics related to this area such as teacher behavior. Intended primarily for graduate-level courses in education, school psychology, or child clinical psychology, it will also be of interest to

practicing professionals in these fields.

aimsweb math probes: *RTI Success* Elizabeth Whitten, Kelli J. Esteves, Alice Woodrow, 2020-06-30 Accessible, hands-on RTI guidance and strategies for educators at all grade levels This practical, ready-to-use resource gives teachers and administrators the tools to successfully implement RTI or strengthen an existing program to target students' specific needs. Response to Intervention allows educators to assess and meet the needs of struggling students before they have fallen too far behind. Three expert authors explore this multi-tiered system of support (MTSS), offering over one hundred research-based, instructional techniques and interventions for use in diverse settings, advice on creating personal and positive learning environments, information on co-teaching, and approaches to purposeful grouping. Included in the book and as digital downloads are easy-to-use customizable forms to streamline assessment, implementation, and documentation. Also included is an extensive list of references and resources for further exploration.

aimsweb math probes: *Psychological Assessment of Culturally and Linguistically Diverse Children and Adolescents* Esther Geva, PhD, Judith Wiener, PhD, 2014-08-04 Print+CourseSmart

aimsweb math probes: *Teaching Elementary Mathematics to Struggling Learners* Bradley S. Witzel, Mary E. Little, 2016-01-24 Packed with effective instructional strategies, this book explores why certain K-5 students struggle with math and provides a framework for helping these learners succeed. The authors present empirically validated practices for supporting students with disabilities and others experiencing difficulties in specific areas of math, including problem solving, early numeracy, whole-number operations, fractions, geometry, and algebra. Concrete examples, easy-to-implement lesson-planning ideas, and connections to state standards, in particular the Common Core standards, enhance the book's utility. Also provided is invaluable guidance on planning and delivering multi-tiered instruction and intervention.

aimsweb math probes: *Assessment and Intervention for English Language Learners* Susan Unruh, Nancy A. McKellar, 2017-03-07 This book presents evidence-based practices for appropriate assessment of and school-based services for young English language learners. It identifies and addresses the challenges of assessing and intervening with these students at the curricular, instructional, environmental, and individual levels, particularly the complexities of determining the presence or absence of learning disabilities. Case studies and comparisons with fluent English speakers illustrate the screening and evaluation process - including multi-tier system of supports (MTSS) and response to intervention (RTI) - and proactive intervention planning in core literacy and math domains. Together, these chapters model effective teaching practice, advocacy, and teamwork with parents and colleagues as well as policy development toward meeting the needs of this diverse student population. This invaluable guide: Examines challenges of data collection when working with English language learners. Traces the development of dual-language fluency and competence. Discusses language-acquisition issues affecting oral language assessment. Reviews commonly used assessment and intervention tools in use with English learners. Features specialized chapters relating to reading, writing, and mathematics competencies. Can be used regardless of first language spoken by students. *Assessment and Intervention for English Language Learners* is an essential resource for researchers, professionals, and graduate students in diverse fields including school and clinical child psychology; assessment, testing, and evaluation; language education; special education; and educational psychology.

aimsweb math probes: *Math Instruction for Students with Learning Difficulties* Susan Perry Gurganus, 2021-11-29 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.

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aimsweb math probes: Multi-Tiered Systems of Support in Secondary Schools Alison G. Clark, Katherine A. Dockweiler, 2019-01-16 Multi-Tiered Systems of Support in Secondary Schools is a humanistic guide used to produce reliable human capital outputs while ensuring the promotion of socially just practices on campus. Featuring real perspectives from practitioners, this text shows how to make manageable changes at secondary schools in accordance with public policy mandates and evidence-based practices by developing smart teams and programs, identifying roles and responsibilities, implementing layers of academic support and services, improving behavioral and mental health of students, and creating an inclusive school culture. This unique guide assists practitioners in implementing systemic change in a bureaucratic system while simultaneously strengthening the health and cohesion of the organization.

aimsweb math probes: Making RTI Work Wayne Sailor, 2009-10-12 Offers best practices for implementing RTI at the school-wide level-to ensure success for all learners
Response-to-Intervention is now mandated at schools across the country. While there are a handful of books offering tips on implementation, schools are still struggling to find the best approaches. This book, from a prominent RTI researcher, explains how the most successful schools using RTI manage the process. Sailor offers best practices for implementing RTI not only at the classroom level, but also at the school-wide and district-wide levels, to ensure no student falls through the cracks and schools fulfill the promise of RTI. Offers clear guidance on implementing Response-to-Intervention effectively Reveals the framework used by the most successful schools using RTI Includes information on applying RTI for behavioral problems as well as academic challenges Contains illustrative examples of how the approach is applied at all levels, from individual student to school-wide and district-wide Written by a top researcher in the field of Response-to Intervention

aimsweb math probes: Special and Gifted Education: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-04-25 Diverse learners with exceptional needs require a specialized curriculum that will help them to develop socially and intellectually in a way that traditional pedagogical practice is unable to fulfill. As educational technologies and theoretical approaches to learning continue to advance, so do the opportunities for exceptional children. Special and Gifted Education: Concepts, Methodologies, Tools, and Applications is an exhaustive compilation of emerging research, theoretical concepts, and real-world examples of the ways in which the education of special needs and exceptional children is evolving. Emphasizing pedagogical innovation and new ways of looking at contemporary educational practice, this multi-volume reference work is ideal for inclusion in academic libraries for use by pre-service and in-service teachers, graduate-level students, researchers, and educational software designers and developers.

aimsweb math probes: Assessment-Powered Teaching Nancy W. Sindelar, 2010-11-19 There is now compelling research that assessment can be used to improve both student learning and professional practice. Nancy Sindelar provides practical examples of how teachers, teams, schools,

and districts are using assessment to drive continuous improvement. —Richard Dufour, Educational Author and Consultant This book provides specific strategies to unlock the mystery of data, outlining step-by-step processes on how to use it to impact teaching and create tools to keep students actively involved in their improved learning. —Gail Gorry, Principal Frontier Elementary School, Payson, AZ Everything you need to become an assessment-powered teacher is right here! Knowledge is power, and this book puts assessment data and instruction together in a step-by-step format. Instead of dreading the time testing takes from teaching, you can harness its power to define learning targets, build standards-based assessments, gather and use test data in the classroom, and develop data-driven teaching strategies. Assessment expert Nancy W. Sindelar provides practical tools that help teachers: Use formative and summative assessment results to enhance instruction Motivate students by providing clear learning targets Utilize technology to analyze students' progress Raise test scores Included are testimonials from teachers, numerous data analysis examples, rubrics, and a chapter on culturally diverse schools. Designed to be adaptable, this book is a powerful resource for teachers, teacher teams, and all educators dedicated to enhancing student learning.

aimsweb math probes: *Supporting Inclusion* Faith Edmonds Andreassen, 2014-04-02

Supporting Inclusion: School Administrators' Perspectives and Practices provides significant insights that arm the reader with a variety of ideas and easy-to-implement applicable strategies gleaned from knowledgeable contemporaries. This book details various approaches taken by administrators as they transitioned their schools from a segregated resource environment to an inclusive framework. From elementary to high school, administrators in both large and small school districts describe approaches that best suited their populations' needs. While transitioning to inclusion, administrators created structures that maximized staff talent and encouraged faculty buy-in. Challenges included calendaring collaboration time, providing inclusion and co-teaching training, properly mentoring first year teachers, securing expert ancillary staff, retraining paraprofessionals from resource to inclusive supporting roles, procuring appropriate technology and supplemental resources, and presenting strategies to accommodate behaviorally challenged students. Programing often required shifting populations and leveling classes. Ultimately, administrators established and sustained inclusive classrooms with a good deal of success.

aimsweb math probes: *Academic Skills Problems Fifth Edition Workbook* Edward S. Shapiro, Nathan H. Clemens, 2023-07-28 Updated in conjunction with *Academic Skills Problems, Fifth Edition*, the companion workbook contains reproducible forms discussed in the text as well as additional useful materials for direct assessment, intervention planning, and data-based decision making. The workbook is geared to service delivery in a multi-tiered system of support (MTSS). It features step-by-step instructions for using each form along with exercises for practicing assessment processes and procedures. The convenient large-size format facilitates photocopying; purchasers also get access to a webpage where they can download and print the reproducible tools. New to This Edition *Revised throughout by new coauthor Nathan H. Clemens, while retaining the core elements of Edward S. Shapiro's approach. *More concise and accessible throughout. *Features a new streamlined version of the Behavior Observation of Students in Schools (BOSS), in addition to the original version. See also the authoritative text on direct assessment and intervention, *Academic Skills Problems, Fifth Edition*.

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