

How To Support Ell Students In Math

How to Support ELL Students in Math: A Comprehensive Guide

Introduction:

Are you a teacher, tutor, or parent struggling to effectively support English Language Learners (ELLs) in mathematics? Mathematics, often perceived as a universal language, presents unique challenges for ELL students. The specialized vocabulary, abstract concepts, and culturally influenced problem-solving strategies can create a significant learning gap. This comprehensive guide provides practical, evidence-based strategies to help you bridge that gap and empower your ELL students to thrive in math. We'll explore classroom adaptations, effective communication techniques, and culturally responsive teaching methods to foster a supportive and inclusive learning environment. Get ready to unlock your ELL students' mathematical potential!

1. Understanding the Unique Challenges Faced by ELL Students in Math:

ELL students face a double challenge: mastering the English language and grasping complex mathematical concepts. This section delves into the specific hurdles they encounter:

Language Barriers: Mathematical terminology is often highly specialized. Words like "equation," "variable," "denominator," and "algorithm" can be confusing even for native English speakers, let alone students still learning the language. Understanding word problems requires strong English comprehension skills.

Cultural Differences in Math Instruction: Different cultures may emphasize different teaching methods and problem-solving approaches. What's considered a standard method in one culture might be unfamiliar or even counterintuitive in another.

Cognitive Load: The simultaneous effort of processing new mathematical concepts while also deciphering the language creates a significant cognitive load, leading to frustration and potential disengagement.

Lack of Confidence: Struggling with both language and math can negatively impact a student's self-esteem and confidence, creating a vicious cycle of avoidance and underachievement.

2. Creating an Inclusive and Supportive Classroom Environment:

Building a positive and inclusive classroom is paramount. This requires:

Visual Aids and Manipulatives: Use visual aids like diagrams, charts, and real-world objects to illustrate concepts. Manipulatives like blocks, counters, and geometric shapes allow students to physically engage with mathematical ideas.

Collaborative Learning: Encourage group work and peer learning. ELL students can benefit

significantly from interacting with classmates and explaining concepts in their own words. Pair them with strong math students who can provide language support.

Positive Reinforcement and Encouragement: Focus on effort and progress rather than solely on grades. Celebrate small victories and provide regular positive feedback to boost confidence.

Differentiated Instruction: Provide varied learning materials and activities to cater to different learning styles and proficiency levels. Offer multiple representations of concepts (visual, auditory, kinesthetic).

3. Effective Communication Strategies for Supporting ELL Students in Math:

Effective communication is crucial. Strategies include:

Clear and Concise Language: Use simple, everyday language whenever possible. Avoid jargon and technical terms unless explicitly defined and explained.

Visual Supports: Supplement verbal explanations with visuals, such as diagrams, charts, and real-world examples.

Bilingual Dictionaries and Glossaries: Provide students with access to bilingual dictionaries and glossaries of mathematical terms.

Use of Gestures and Nonverbal Communication: Gestures and nonverbal cues can help clarify meaning and bridge the language gap.

Modeling and Think-Aloud Strategies: Demonstrate problem-solving strategies aloud, verbalizing your thought process to provide a model for students.

Providing Multiple Means of Representation: Offer materials in different formats such as audio recordings, videos, and interactive simulations.

4. Culturally Responsive Teaching in Mathematics:

Culturally responsive teaching recognizes and values the diverse backgrounds and experiences of students. This involves:

Connecting Math to Students' Cultures: Use real-world examples and problems relevant to students' lives and cultural backgrounds.

Incorporating Diverse Representations: Ensure that mathematical problems and examples reflect the diversity of the classroom.

Understanding Cultural Differences in Learning Styles: Be aware of different learning styles and adapt your teaching methods accordingly.

Building Relationships with Families: Communicate regularly with families to understand their perspectives and build a strong home-school connection.

5. Utilizing Technology to Support ELL Students in Math:

Technology can be a powerful tool for supporting ELL students:

Interactive Math Software and Apps: Utilize educational software and apps that offer interactive exercises and games. Many programs offer multilingual support.

Online Translation Tools: Use online translation tools cautiously, but they can be helpful for understanding specific terms or phrases.

Virtual Manipulatives: Interactive virtual manipulatives can provide students with engaging and accessible ways to explore mathematical concepts.

6. Assessment Strategies for ELL Students:

Assessment should be fair and equitable. Consider:

Alternative Assessment Methods: Use a variety of assessment methods, including oral assessments, projects, and portfolios, to provide students with multiple opportunities to demonstrate their understanding.

Modified Assessments: Modify assessments to reduce the language demands while still assessing mathematical understanding.

Focus on Conceptual Understanding: Prioritize assessing students' conceptual understanding rather than just their ability to perform rote calculations.

7. Collaboration with Special Education and ESL Teachers:

Collaboration with special education and ESL teachers is essential to ensure that ELL students with additional needs receive appropriate support. This could involve co-teaching, consultation, and sharing of expertise.

8. Ongoing Professional Development:

Stay up-to-date on best practices for supporting ELL students in math through professional development opportunities and resources.

9. Celebrating Successes and Building Confidence:

Regularly acknowledge and celebrate students' successes, both big and small. This positive reinforcement helps build confidence and motivates further learning.

Article Outline: Supporting ELL Students in Math

Introduction: Hook, overview of challenges and solutions.

Chapter 1: Understanding the Unique Challenges (Language barriers, cultural differences, cognitive load).

Chapter 2: Creating an Inclusive Classroom (Visual aids, collaboration, differentiated instruction).

Chapter 3: Effective Communication (Clear language, visuals, bilingual resources).

Chapter 4: Culturally Responsive Teaching (Connecting to culture, diverse representations).

Chapter 5: Utilizing Technology (Software, apps, virtual manipulatives).

Chapter 6: Assessment Strategies (Alternative methods, modified assessments).

Chapter 7: Collaboration with Specialists (Special education, ESL teachers).

Chapter 8: Ongoing Professional Development (Staying updated).

Chapter 9: Celebrating Successes (Building confidence).

Conclusion: Recap of key strategies and call to action.

(The detailed content for each chapter is covered above in the main body of the blog post.)

FAQs:

1. What are the most common language barriers for ELL students in math? Specialized vocabulary, understanding word problems, interpreting mathematical symbols.
2. How can I differentiate instruction for ELL students in math? Use visual aids, manipulatives, provide multiple examples, and offer varied activities catering to different learning styles.
3. What are some effective ways to assess ELL students' math understanding without relying solely on written tests? Oral assessments, projects, presentations, and portfolio assessments.
4. How can I connect math concepts to students' cultural backgrounds? Use real-world examples relevant to their lives and incorporate culturally relevant materials.
5. What technology resources are helpful for supporting ELL students in math? Interactive math software, online translation tools (used cautiously), and virtual manipulatives.
6. How can I collaborate effectively with ESL and special education teachers? Regular communication, co-teaching, shared planning, and joint assessment.
7. What are some strategies for building confidence in ELL math students? Positive reinforcement, celebrating successes, and fostering a supportive classroom environment.
8. How can I help ELL students understand word problems better? Break down problems into smaller parts, use visuals, and encourage students to restate the problem in their own words.
9. Where can I find resources and professional development opportunities for supporting ELL students in math? Professional organizations like NCTM (National Council of Teachers of Mathematics), online courses, and workshops focused on ELL instruction.

Related Articles:

1. Teaching Math to Bilingual Learners: Strategies for Success: Focuses on practical classroom

strategies for bilingual learners.

2. Overcoming Language Barriers in Math: A Guide for Educators: Provides specific techniques for addressing language challenges in math classrooms.
3. Culturally Responsive Math Instruction for ELL Students: Explores the importance of cultural relevance in math education for ELLs.
4. The Role of Technology in Supporting ELLs in Mathematics: Examines the effective use of technology for ELLs in math.
5. Assessing ELL Students in Mathematics: Fair and Equitable Practices: Details fair assessment methods that accurately reflect ELL students' understanding.
6. Building a Supportive Math Classroom for ELL Students: Focuses on creating a positive and inclusive learning environment.
7. Effective Communication Strategies for Teaching ELL Students Math: Provides detailed communication strategies tailored to the math classroom.
8. Collaboration and Co-teaching for ELL Math Success: Highlights the benefits of collaboration between teachers for improved ELL outcomes in math.
9. Professional Development Resources for Teaching ELLs in Math: A curated list of resources for ongoing professional growth in this area.

how to support ell students in math: *Teaching Mathematics to English Language Learners*
Gladis Kersaint, Denisse R. Thompson, Mariana Petkova, 2014-06-05 Today's mathematics classrooms increasingly include students for whom English is a second language. Teaching Mathematics to English Language Learners provides readers a comprehensive understanding of both the challenges that face English language learners (ELLs) and ways in which educators might address them in the secondary mathematics classroom. Framed by a research perspective, Teaching Mathematics to English Language Learners presents practical instructional strategies for engaging learners that can be incorporated as a regular part of instruction. The authors offer context-specific strategies for everything from facilitating classroom discussions with all students, to reading and interpreting math textbooks, to tackling word problems. A fully annotated list of math web and print resources completes the volume, making this a valuable reference to help mathematics teachers meet the challenges of including all learners in effective instruction. Features and updates to this new edition include: An updated and streamlined Part 1 provides an essential overview of ELL theory in a mathematics specific context. Additional practical examples of mathematics problems and exercises make turning theory into practice easy when teaching ELLs New pedagogical elements in Part 3 include tips on harnessing new technologies, discussion questions and reflection points. New coverage of the Common Core State Standards, as well as updates to the web and print resources in Part 4.

how to support ell students in math: *Supporting English Language Learners in Math Class*
Rusty Bresser, Kathy Melanese, Christine Sphar, Carolyn Felux, 2009-04-15 This multimedia resource helps schools implement effective instructional practices that create sustainable results for English language learners. The research-based materials in this program assist educators with simultaneously developing students' mastery of mathematics and their academic language proficiency. The components include a DVD with real-life footage of teachers and students in action,

a two-book series describing best practices for teaching mathematics to English language learners and a Facilitator's Guide with materials for follow-up coaching including questions to guide viewing and reading, activities and reproducibles.

how to support ell students in math: Teaching Math to Multilingual Students, Grades K-8 Kathryn B. Chval, Erin Smith, Lina Trigos-Carrillo, Rachel J. Pinnow, 2021-01-07 Using strengths-based approaches to support development in mathematics It's time to re-imagine what's possible and celebrate the brilliance multilingual learners bring to today's classrooms. Innovative teaching strategies can position these learners as leaders in mathematics. Yet, as the number of multilingual learners in North American schools grows, many teachers have not had opportunities to gain the competencies required to teach these learners effectively, especially in disciplines such as mathematics. Multilingual learners—historically called English Language Learners—are expected to interpret the meaning of problems, analyze, make conjectures, evaluate their progress, and discuss and understand their own approaches and the approaches of their peers in mathematics classrooms. Thus, language plays a vital role in mathematics learning, and demonstrating these competencies in a second (or third) language is a challenging endeavor. Based on best practices and the authors' years of research, this guide offers practical approaches that equip grades K-8 teachers to draw on the strengths of multilingual learners, partner with their families, and position these learners for success. Readers will find: • A focus on multilingual students as leaders • A strength-based approach that draws on students' life experiences and cultural backgrounds • An emphasis on maintaining high expectations for learners' capacity for mastering rigorous content • Strategies for representing concepts in different formats • Stop and Think questions throughout and reflection questions at the end of each chapter • Try It! Implementation activities, student work examples, and classroom transcripts With case studies and activities that provide a solid foundation for teachers' growth and exploration, this groundbreaking book will help teachers and teacher educators engage in meaningful, humanized mathematics instruction.

how to support ell students in math: Supporting English Language Learners in Math Class, Grades K-2 Rusty Bresser, Kathy Melanese, Christine Sphar, 2009 An interactive resource designed to help schools implement effective instructional practices that create sustainable results for English language learners. These research-based materials assist educators with simultaneously developing students' mastery of mathematics and their academic language development.--from package.

how to support ell students in math: Teaching Mathematics to English Language Learners Luciana C. de Oliveira, Marta Civil, 2020-10-09 This edited book is about preparing pre-service and in-service teachers to teach secondary-level mathematics to English Language Learners (ELLs) in twenty-first century classrooms. Chapter topics are grounded in both research and practice, addressing a range of timely topics including the current state of ELL education in the secondary mathematics classroom, approaches to leveraging the talents and strengths of bilingual students in heterogeneous classrooms, best practices in teaching mathematics to multilingual students, and ways to infuse the secondary mathematics teacher preparation curriculum with ELL pedagogy. This book will appeal to all teachers of ELLs, teacher educators and researchers of language acquisition more broadly. This volume is part of a set of four edited books focused on teaching the key content areas to English language learners. The other books in the set focus on teaching History and Social Studies, English Language Arts, and Science to ELLs.

how to support ell students in math: Routines for Reasoning Grace Kelemanik, Amy Lucenta, Susan Janssen Creighton, 2016 Routines can keep your classroom running smoothly. Now imagine having a set of routines focused not on classroom management, but on helping students develop their mathematical thinking skills. Routines for Reasoning provides expert guidance for weaving the Standards for Mathematical Practice into your teaching by harnessing the power of classroom-tested instructional routines. Grace Kelemanik, Amy Lucenta, and Susan Janssen Creighton have applied their extensive experience teaching mathematics and supporting teachers to crafting routines that are practical teaching and learning tools. -- Provided by publisher.

how to support ell students in math: Supporting English Language Learners in Math

Class, Grades 3-5 Rusty Bresser, Kathy Melanese, Christine Sphar, 2008 An interactive resource designed to help schools implement effective instructional practices that create sustainable results for English language learners. These research-based materials assist educators with simultaneously developing students' mastery of mathematics and their academic language development.--from package.

how to support ell students in math: Book Fiesta! Pat Mora, 2016-03-29 This Pura Belpré Award-winning picture book is a bilingual ride through the joyous history of Children's Day/El día de los niños. Children's Day/Book Day; El día de los niños/El día de los libros has been observed on April 30th for over twelve years. Founder Pat Mora's jubilant celebration of this day features imaginative text and lively illustrations by award-winning illustrator Rafael López that will turn this bilingual fiesta into a hit for story time! Toon! Toon! The book includes a letter from the author and suggestions for celebrating Children's Day /El día de los niños.

how to support ell students in math: English Language Learners in the Mathematics Classroom Debra Coggins, Drew Kravin, Grace Dávila Coates, Maria Dreux Carroll, 2007-01-30 Strengthen mathematical understandings and academic vocabulary with standards-based strategies! With straightforward language and examples, the authors help teachers develop specialized understanding and knowledge of strategies for supporting a high level of mathematics learning along with language acquisition for ELLs. Providing specific suggestions for teaching standards-based mathematics, this resource: Demonstrates how to incorporate ELL supports and strategies through sample lessons Uses concrete materials and visuals to connect mathematical concepts with language development Focuses on essential mathematical vocabulary Includes brief research summaries with rationales for recommended practices

how to support ell students in math: The Common Core State Standards in Mathematics for English Language Learners Anita Bright, Holly Hansen-Thomas, Luciana C. De Oliveira, 2015 Copublished with the National Council of Teachers of Mathematics (NCTM). This new volume explores some of the ways high school mathematics content can be made accessible to ELLs by building from their strengths and scaffolding their opportunities to learn more.

how to support ell students in math: Number Talks Sherry Parrish, 2010 A multimedia professional learning resource--Cover.

how to support ell students in math: Culturally Responsive Teaching Geneva Gay, 2010 The achievement of students of color continues to be disproportionately low at all levels of education. More than ever, Geneva Gay's foundational book on culturally responsive teaching is essential reading in addressing the needs of today's diverse student population. Combining insights from multicultural education theory and research with real-life classroom stories, Gay demonstrates that all students will perform better on multiple measures of achievement when teaching is filtered through their own cultural experiences. This bestselling text has been extensively revised to include expanded coverage of student ethnic groups: African and Latino Americans as well as Asian and Native Americans as well as new material on culturally diverse communication, addressing common myths about language diversity and the effects of English Plus instruction.

how to support ell students in math: *Supporting English Language Learners in Kindergarten* Ontario. Ministry of Education, 2007

how to support ell students in math: Making Math Accessible to English Language Learners (Grades 3-5) r4Educated Solutions, 2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics. The tips and suggestions are based on research in practices and strategies that address the affective, linguistic, and cognitive needs of English language learners.

how to support ell students in math: Making Math Accessible to English Language Learners (Grades 6-8) r4Educated Solutions, 2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics. The tips and suggestions are based on research in practices

and strategies that address the affective, linguistic, and cognitive needs of English language learners.

how to support ell students in math: Making Math Accessible to English Language Learners (Grades 9-12) r4Educated Solutions, 2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics. The tips and suggestions are based on research in practices and strategies that address the affective, linguistic, and cognitive needs of English language learners. Although this resource centers on teaching English language learners, many of the tips and suggestions benefit all students. Making Math Accessible for English Language Learners follows five case studies of composite student profiles throughout the book with opportunities for reflection to increase personal awareness of both the teacher's role and students' needs in the mathematics classroom, tasks to provide interaction with the content of the book, and hot tips for ideas applicable to real-world classroom situations.

how to support ell students in math: Supporting English Language Learners Farin A. Houk, 2005 Smart, passionate, practical, and filled with experience-honed thinking, Supporting English Language Learners is an ideal resource for all education professionals who are looking for the best ways to help nonnative learners.

how to support ell students in math: The ESL / ELL Teacher's Survival Guide Larry Ferlazzo, Katie Hull Sypnieski, 2012-08-06 A much-needed resource for teaching English to all learners The number of English language learners in U.S. schools is projected to grow to twenty-five percent by 2025. Most teachers have English learners in their classrooms, from kindergarten through college. The ESL/ELL Teacher's Survival Guide offers educators practical strategies for setting up an ESL-friendly classroom, motivating and interacting with students, communicating with parents of English learners, and navigating the challenges inherent in teaching ESL students. Provides research-based instructional techniques which have proven effective with English learners at all proficiency levels Offers thematic units complete with reproducible forms and worksheets, sample lesson plans, and sample student assignments The book's ESL lessons connect to core standards and technology applications This hands-on resource will give all teachers at all levels the information they need to be effective ESL instructors.

how to support ell students in math: From Ideas to Words Tasha Tropp Laman, 2013 A comprehensive guide to working with any English language learner (ELL) student writer. Provides insight and practical tips for getting ELL students writing, even if they are at the very beginning stages of English language acquisition. Each chapter is stocked with specific tools and strategies that help make writing instruction meet the needs of multilingual writers; illustrated classroom vignettes and samples of children's writing; and student observations and planning notes based on the information in that chapter. Includes advice on creating a classroom environment that supports ELL writers, building a community that promotes risk taking and values different experiences, creating whole group minilessons that meet the needs of emerging and fluent ELLs, scaffolding independent practice for a wide variety of ELLs, scaffolding writing conferences with tools based on ELL students' writing and language needs, facilitating and encouraging students to share and reflect.

how to support ell students in math: Mathematical Thinking and Communication Mark Driscoll, Johannah Nikula, Jill Neumayer DePiper, 2016 Language is deeply involved in learning mathematics as students both communicate and think about mathematical ideas. Because of this, teachers of English learners have particular challenges to overcome. Mathematical Thinking and Communication addresses perhaps the most significant challenge: providing access to mathematics for these students. For all students-and English learners in particular-access means finding effective, authentic ways to make language clear and thinking visible so they can reason more, speak more, and write more in mathematics. Based on extensive research and collaboration with teachers, coaches, and schools, Mark Driscoll, Johannah Nikula, and Jill Neumayer DePiper outline four principles for designing instruction that creates this kind of access: challenging tasks, multimodal

representations, development of mathematical communication, and repeated structured practice. Starting from the perspective that English learners are capable of mathematical thinking (even as they are learning to express their ideas verbally), the authors highlight techniques for using gestures, drawings, models, manipulatives, and technology as tools for reasoning and communication. By embedding these visual representations into instruction-and encouraging their regular use-teachers support engagement in problem solving, facilitate mathematical dialogue, and notice evidence of students' thinking that propels them to create more engaging and equitable instruction. Enhanced by an extensive online collection of companion professional development resources, this book highlights classroom-ready strategies and routines for fostering mathematics success in all students and helping them recognize their potential.

how to support ell students in math: Academic Conversations Jeff Zwiers, Marie Crawford, 2023-10-10 Conversing with others has given insights to different perspectives, helped build ideas, and solve problems. Academic conversations push students to think and learn in lasting ways. Academic conversations are back-and-forth dialogues in which students focus on a topic and explore it by building, challenging, and negotiating relevant ideas. In *Academic Conversations: Classroom Talk that Fosters Critical Thinking and Content Understandings* authors Jeff Zwiers and Marie Crawford address the challenges teachers face when trying to bring thoughtful, respectful, and focused conversations into the classroom. They identify five core communications skills needed to help students hold productive academic conversation across content areas: Elaborating and Clarifying Supporting Ideas with Evidence Building On and/or Challenging Ideas Paraphrasing Synthesizing This book shows teachers how to weave the cultivation of academic conversation skills and conversations into current teaching approaches. More specifically, it describes how to use conversations to build the following: Academic vocabulary and grammar Critical thinking skills such as persuasion, interpretation, consideration of multiple perspectives, evaluation, and application Literacy skills such as questioning, predicting, connecting to prior knowledge, and summarizing An academic classroom environment brimming with respect for others' ideas, equity of voice, engagement, and mutual support The ideas in this book stem from many hours of classroom practice, research, and video analysis across grade levels and content areas. Readers will find numerous practical activities for working on each conversation skill, crafting conversation-worthy tasks, and using conversations to teach and assess. *Academic Conversations* offers an in-depth approach to helping students develop into the future parents, teachers, and leaders who will collaborate to build a better world.

how to support ell students in math: *Teaching English Language Learners Across the Content Areas* Judie Haynes, Debbie Zacarian, 2010 Strategies, tools, tips, and examples that teachers can use to help English language learners at all levels flourish in mainstream classrooms.

how to support ell students in math: *Assessment Standards for School Mathematics* National Council of Teachers of Mathematics, 1995 This document was created because of the need for new assessment strategies and practices to be developed to enable teachers and others to assess students' performance in a manner that reflects the NCTM's reform vision for school mathematics. Instead of assuming that the purpose of assessment is to rank students on a particular trait, the new approach assumes that high public expectations can be set that every student can strive for and achieve, that different performances can and will meet agreed-on expectations, and that teachers can be fair and consistent judges of diverse student performances. The first sections of the document discuss six mathematics assessment standards: (1) The Mathematics Standard, (2) The Learning Standard, (3) The Equity Standard, (4) The Openness Standard, (5) The Inferences Standard, and (6) The Coherence Standard. The use of the assessment standards is then discussed in the context of different purposes such as monitoring students' progress, making instructional decisions, evaluating students' achievement, and evaluating programs. The next section discusses what should happen next with regard to mathematical assessment. The document concludes with a glossary and a selected assessment bibliography with 116 citations. Contains 28 references. (MKR)

how to support ell students in math: *English Language Learners in the Mathematics*

Classroom Debra Coggins, 2007-02-12 Offering strategies, guidelines, and classroom vignettes, *English Language Learners in the Mathematics Classroom* demonstrates how to adjust mathematics instruction to make the learning less language-dependent while fostering language development. With straightforward terms and examples, this text helps teachers develop specialized understanding and knowledge of strategies for supporting a high level of mathematics learning along with language acquisition for ELLs. The authors show how to use conversational, everyday language to bridge the development of mathematical concepts and offer links to accompanying academic vocabulary. --From publisher's description.

how to support ell students in math: *Teaching Secondary Science* Keith Ross, Liz Lakin, Janet McKechnie, Jim Baker, 2015-06-19 The fourth edition of *Teaching Secondary Science* has been fully updated and includes a wide range of new material. This invaluable resource offers a new collection of sample lesson plans and includes two new chapters covering effective e-learning and advice on supporting learners with English as a second language. It continues as a comprehensive guide for all aspects of science teaching, with a focus on understanding pupils' alternative frameworks of belief, the importance of developing or challenging them and the need to enable pupils to take ownership of scientific ideas. This new edition supports all aspects of teaching science in a stimulating environment, enabling pupils to understand their place in the world and look after it. Key features include: Illustrative and engaging lesson plans for use in the classroom Help for pupils to construct new scientific meanings M-level support materials Advice on teaching 'difficult ideas' in biology, chemistry, physics and earth sciences Education for sustainable development and understanding climate change Managing the science classroom and health and safety in the laboratory Support for talk for learning, and advice on numeracy in science New chapters on e-learning and supporting learners with English as a second language. Presenting an environmentally sustainable, global approach to science teaching, this book emphasises the need to build on or challenge children's existing ideas so they better understand the world in which they live. Essential reading for all students and practising science teachers, this invaluable book will support those undertaking secondary science PGCE, school-based routes into teaching and those studying at Masters level.

how to support ell students in math: It's All about the Books Tammy Mulligan, Clare Landrigan, 2018 How to flexibly organize school book rooms in service of instruction-aligned classroom libraries--

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how to support ell students in math: *Classroom Instruction That Works with English Language Learners* Jane Hill, Kirsten B. Miller, 2013 This all-new edition strengthens your instructional planning and makes it easier to know when to use research-based instructional strategies with ELL students in every grade level.

how to support ell students in math: Math for ELLs Jim Ewing, 2020-02-20 Do you teach math to Spanish-Speaking ELLs (especially K-8)? If so, *Math for ELLs* is for you. There is a myth that

“math is math” and there is no language involved; yet ELLs are not doing well in this subject. About three quarters of ELLs speak Spanish at home--this book focuses on these students. Make math come alive for Spanish-speaking ELLs. You will grasp the strategies as easy as “uno, dos, tres!”

how to support ell students in math: *Beyond Good Teaching* Sylvia Celedon-Pattichis, Nora G. Ramirez, 2012 English language learners share a basic need—to engage, and be engaged, in meaningful mathematics. Through guiding principles and instructional tools, together with classroom vignettes and video clips, this book shows how to go beyond good teaching to support ELLs in learning challenging mathematics while developing language skill. Position your students to share the valuable knowledge that they bring to the classroom as they actively build and communicate their understanding. The design of this book is interactive and requires the reader to move back and forth between the chapters and online resources at www.nctm.org/more4u. Occasionally, the reader is asked to stop and reflect before reading further in a chapter. At other times, the reader is asked to view video clips of teaching practices for ELLs or to refer to graphic organizers, observation and analysis protocols, links to resources, and other supplementary materials. The authors encourage the reader to use this resource in professional development.

how to support ell students in math: *The SIOP Model for Teaching Mathematics to English Learners* Jana Echevarria, MaryEllen Vogt, Deborah Short, 2010 Enhance your Mathematics content instruction with the SIOP Model and transform the academic English and mathematics skills of your English learners. Based on the best-selling resource, *Making Content Comprehensible for English Learners: The SIOP Model* by acclaimed authors Jana Echevarria, MaryEllen Vogt, and Deborah Short; teachers, coaches, and intervention teachers have access to research-based, SIOP-tested techniques for lessons specifically for the mathematics classroom. This highly anticipated book, *The SIOP Model for Teaching Mathematics to English Learners* addresses the issues faced in teaching math to English learners (ELs) at each grade-level. SIOP techniques and activities organized around the eight SIOP components guide educators in promoting academic language development along with comprehensible mathematics content. Written for SIOP teachers and those who have learned the SIOP Model, this book includes proven, effective math lessons and comprehensive units designed by SIOP math educators Araceli Avila and Melissa Castillo. In addition, this book provides ideas to adapt the techniques for students at different levels of English proficiency. This book is sure to become an indispensable resource for math educators of English learners. Presents a systematic process for teaching both the academic content of mathematics and its associated academic language to English learners. Offers ideas and activities about teaching mathematics and organizes activities by grade-bands--K-2, 3-5 (or 6), 6-8, and 9-12 and SIOP components. Provides use-tomorrow ideas and activities for implementing the eight components of the SIOP Model in a mathematics classroom. Includes lesson plans and comprehensive units that illustrate how a particular activity can be effective for ALL students, not just English learners. Create the ideal SIOP classroom with other resources from the SIOP Model Series: 99 Ideas and Activities for Teaching English Learners with the SIOP Model; Implementing the SIOP Model through Effective Coaching and Professional Development; The SIOP Model for Administrators; Making Content Comprehensible for Elementary English Learners; and Making Content Comprehensible for Secondary English Learners ; The SIOP Model for Teaching Math to English Learners; The SIOP Model for Teaching Social Studies to English Learners; and The SIOP Model for Teaching Science to English Learners (all published by Pearson)

how to support ell students in math: *English Learners in STEM Subjects* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Children, Youth, and Families, Board on Science Education, Committee on Supporting English Learners in STEM Subjects, 2019-01-28 The imperative that all students, including English learners (ELs), achieve high academic standards and have opportunities to participate in science, technology, engineering, and mathematics (STEM) learning has become even more urgent and complex given shifts in science and mathematics standards. As a group, these students are underrepresented in STEM fields in college and in the workforce at a time when the

demand for workers and professionals in STEM fields is unmet and increasing. However, English learners bring a wealth of resources to STEM learning, including knowledge and interest in STEM-related content that is born out of their experiences in their homes and communities, home languages, variation in discourse practices, and, in some cases, experiences with schooling in other countries. *English Learners in STEM Subjects: Transforming Classrooms, Schools, and Lives* examines the research on ELs' learning, teaching, and assessment in STEM subjects and provides guidance on how to improve learning outcomes in STEM for these students. This report considers the complex social and academic use of language delineated in the new mathematics and science standards, the diversity of the population of ELs, and the integration of English as a second language instruction with core instructional programs in STEM.

how to support ell students in math: What Teachers Need to Know About Language

Carolyn Temple Adger, Catherine E. Snow, Donna Christian, 2018-07-10 Rising enrollments of students for whom English is not a first language mean that every teacher – whether teaching kindergarten or high school algebra – is a language teacher. This book explains what teachers need to know about language in order to be more effective in the classroom, and it shows how teacher education might help them gain that knowledge. It focuses especially on features of academic English and gives examples of the many aspects of teaching and learning to which language is key. This second edition reflects the now greatly expanded knowledge base about academic language and classroom discourse, and highlights the pivotal role that language plays in learning and schooling. The volume will be of interest to teachers, teacher educators, professional development specialists, administrators, and all those interested in helping to ensure student success in the classroom and beyond.

how to support ell students in math: Making Math Accessible to English Language Learners

r4Educated Solutions, 1993-01-01 Turn your students' lives around and reduce your own stress with practical techniques that focus on building positive relationships and shaping constructive classroom behavior. This book offers strategies for meeting the needs of difficult students and tea

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