

common core grade 1 math

Common Core Grade 1 Math: Building a Strong Foundation for Young Learners

common core grade 1 math serves as a critical stepping stone for children beginning their journey into the world of numbers and problem-solving. At this stage, the emphasis is on developing a solid understanding of basic math concepts that will prepare students for more complex mathematical thinking in later grades. This approach focuses not just on rote memorization but on nurturing a deep comprehension of numbers, operations, and patterns through engaging and meaningful activities.

Understanding the Common Core Grade 1 Math Standards

The Common Core State Standards for Grade 1 math are designed to ensure that students grasp fundamental concepts such as addition, subtraction, number sense, and measurement. These standards provide a clear roadmap for teachers and parents to facilitate learning in a way that feels natural and enjoyable for children.

Key Components of Common Core Grade 1 Math

Number Sense and Base Ten Understanding

One of the first areas of focus in common core grade 1 math is helping students recognize numbers and understand their place value. Children learn to count to 120, read and write numbers, and comprehend the structure of the base-ten system. This includes distinguishing between ones and tens, which is essential for efficient addition and subtraction later on.

Hands-on activities such as using base-ten blocks or drawing representations of tens and ones help solidify these concepts. When students see numbers as groups, they start to internalize the idea that numbers can be broken down and recombined in various ways, fostering flexible thinking.

Addition and Subtraction Fundamentals

First graders are introduced to addition and subtraction within 20, incorporating both strategies and word problems. The common core encourages students to use multiple methods—like counting on fingers, using number lines, or visualizing objects—to solve problems. This variety ensures that children develop a toolbox of strategies rather than relying solely on memorization.

For example, a teacher might present a story problem about sharing apples or finding how many toys remain after some are taken away. These real-world applications make math relevant and help children see the purpose behind the numbers.

Understanding and Applying Measurement

Measurement in grade 1 focuses on comparing lengths, weights, and capacities, using both standard and non-standard units. Children learn vocabulary such as longer, shorter, heavier, and lighter, and begin to make sense of how to measure objects around them.

Introducing measurement concepts through everyday objects—like comparing the length of pencils or the weight of different fruits—engages students and links math to their daily experiences. This hands-on learning promotes curiosity and critical thinking.

Introduction to Shapes and Geometry

Geometry in the first grade involves identifying and describing two- and three-dimensional shapes. Students learn to recognize shapes like squares, triangles, circles, and cubes, and understand their attributes.

Activities might include sorting shapes by their properties, creating patterns, or building simple structures with blocks. This exposure to geometric concepts helps build spatial awareness and prepares children for more advanced geometry in later grades.

Strategies to Support Learning in Common Core Grade 1 Math

Helping children succeed in first grade math requires patience and creativity. Here are some insights on making the learning process both effective and enjoyable:

Incorporate Visual and Tactile Tools

Many first graders benefit greatly from visual aids and hands-on materials. Tools like number charts, counting beads, and shape cutouts can make abstract concepts more concrete. When children manipulate objects, they better understand math ideas and retain information longer.

Use Storytelling to Contextualize Problems

Turning math problems into stories can pique a child's interest. Instead of presenting a dry equation, frame it within scenarios involving their favorite toys or familiar settings. This method helps children grasp the meaning behind math operations and promotes critical thinking.

Encourage Mental Math and Flexible Thinking

While it's tempting to push for quick answers, encouraging children to think about different ways to solve a problem fosters deeper understanding. Asking questions like, "Can you solve this in another way?" or "What if we tried counting backward?" invites exploration and builds confidence.

Practice Regularly but Keep It Short

Young learners have limited attention spans, so brief, frequent practice sessions work best. Integrating math into daily routines—like counting steps, sorting laundry by color, or measuring ingredients during cooking—reinforces skills without feeling like a chore.

Common Challenges in Grade 1 Math and How to Overcome Them

Some students may find certain concepts more challenging than others, and that's perfectly normal. Recognizing these hurdles early can help parents and teachers provide targeted support.

Difficulty Grasping Place Value

Understanding tens and ones can be abstract for some children. Using physical objects, such as grouping sticks into bundles of ten, can make this idea clearer. Visual charts that break down numbers also help reinforce the concept.

Confusion Between Addition and Subtraction

Young learners may mix up when to add or subtract. Creating simple story problems and acting them out can clarify the difference. For instance, "If you have 5 apples and eat 2, how many are left?" versus "If you have 3 apples and get 2 more, how many do you have?"

Struggling With Word Problems

Comprehension of word problems involves both reading and math skills. Reading problems aloud, highlighting important information, and drawing pictures to represent the situation can assist students in breaking down the problem into manageable parts.

Resources and Tools to Enhance Common Core Grade 1 Math Learning

Making math engaging and accessible is easier with the right resources. Many educational websites, apps, and printable worksheets align with common core grade 1 math standards and can be valuable supplements to classroom instruction.

Interactive games that focus on number recognition, addition, and subtraction can motivate children to practice without realizing they're learning. Additionally, educational videos that explain concepts visually can cater to different learning styles.

Parents and educators should look for materials that encourage active participation rather than passive watching. Worksheets that involve coloring, matching, or problem-solving promote engagement and reinforce concepts.

Examples of Helpful Tools

- Base-ten blocks and counters for hands-on counting
- Number lines for visualizing addition and subtraction
- Shape sorting kits for geometry practice
- Measurement tools such as rulers and scales for real-world application
- Apps like Khan Academy Kids or SplashLearn for interactive practice

Through a combination of clear standards, effective teaching strategies, and supportive resources, common core grade 1 math offers a comprehensive framework for nurturing young mathematicians. By focusing on understanding rather than memorization, children develop confidence and a genuine interest in math, setting the stage for success in future learning adventures.

Frequently Asked Questions

What topics are covered in Common Core Grade 1 Math?

Common Core Grade 1 Math covers topics such as addition and subtraction within 20, understanding place value, measurement and data, geometry, and basic number sense.

How does Common Core Grade 1 Math approach addition and

subtraction?

The curriculum emphasizes understanding addition and subtraction as putting together and taking apart, using strategies like counting on, making ten, and using number bonds to solve problems within 20.

What are some effective teaching strategies for Common Core Grade 1 Math?

Effective strategies include using manipulatives, visual aids, interactive games, real-life examples, and encouraging students to explain their thinking to build conceptual understanding.

How can parents support their first graders with Common Core Math at home?

Parents can support by practicing simple addition and subtraction, using everyday activities like cooking or shopping to explore math concepts, and encouraging the use of math vocabulary.

What is the importance of place value in Grade 1 Common Core Math?

Understanding place value helps students grasp the value of digits in numbers, which is foundational for addition, subtraction, and working with numbers beyond 20.

How does Common Core Grade 1 Math incorporate measurement and data?

Students learn to measure lengths using standard units, tell time to the hour and half-hour, and organize, represent, and interpret data using charts and graphs.

What role does geometry play in Common Core Grade 1 Math?

Geometry in Grade 1 includes recognizing and naming shapes, understanding their attributes, and composing and decomposing shapes to develop spatial reasoning.

Are there recommended resources or apps for Common Core Grade 1 Math practice?

Recommended resources include Khan Academy Kids, SplashLearn, and educational workbooks aligned with Common Core standards, which offer interactive and engaging practice.

Additional Resources

Common Core Grade 1 Math: An In-Depth Review of Foundations and Frameworks

common core grade 1 math serves as a critical stepping stone in a child's academic journey,

setting the foundation for future mathematical understanding and proficiency. As educators, parents, and policymakers seek clarity on what first graders are expected to learn under the Common Core State Standards (CCSS), it becomes essential to analyze the curriculum's structure, its alignment with developmental milestones, and its effectiveness in fostering numeracy skills. This article provides a comprehensive, analytical overview of common core grade 1 math, exploring its key components, instructional strategies, and educational implications.

Understanding the Framework of Common Core Grade 1 Math

At its core, common core grade 1 math emphasizes not only procedural skills but also conceptual understanding. The curriculum is built around major domains such as operations and algebraic thinking, number and operations in base ten, measurement and data, and geometry. This multifaceted approach is designed to ensure that students develop a well-rounded grasp of mathematical principles, moving beyond rote memorization to an ability to reason quantitatively and abstractly.

Key Domains and Learning Objectives

The Common Core standards for first grade focus on several pivotal areas:

- **Operations and Algebraic Thinking:** Students learn addition and subtraction within 20, solving word problems, and understanding the relationships between numbers.
- **Number and Operations in Base Ten:** This involves understanding place value, especially recognizing the tens and ones digits in two-digit numbers, and using this knowledge to add and subtract.
- **Measurement and Data:** First graders begin measuring lengths indirectly and by iterating length units, as well as organizing and interpreting data through graphs.
- **Geometry:** Focuses on identifying and describing shapes, understanding their attributes, and partitioning shapes into equal parts.

These areas collectively aim to build numerical fluency and problem-solving skills, which are essential for more advanced math topics in subsequent grades.

Alignment with Cognitive Development

An important aspect of common core grade 1 math is its alignment with the cognitive abilities typical of six- and seven-year-olds. At this stage, children are transitioning from concrete operational thinking to more abstract reasoning. The standards leverage this by integrating hands-on activities and visual

models, such as manipulatives and number lines, to bridge concrete experiences with symbolic representations. This alignment is crucial for fostering a deep understanding rather than superficial memorization.

Instructional Strategies and Classroom Implementation

The success of common core grade 1 math largely hinges on effective instructional methods that accommodate diverse learning styles. Teachers are encouraged to use a variety of resources and approaches to engage students actively.

Use of Manipulatives and Visual Aids

Physical manipulatives like counting blocks, number rods, and shape tiles are instrumental in helping first graders internalize mathematical concepts. Visual aids such as charts, diagrams, and interactive whiteboards further support comprehension by providing concrete examples. These tools enhance students' ability to visualize problems, which is particularly beneficial when tackling abstract concepts like place value or addition with regrouping.

Incorporation of Word Problems and Real-Life Contexts

Common core grade 1 math places considerable emphasis on applying mathematical reasoning to real-world problems. Word problems are not merely exercises in computation; they build critical thinking by requiring students to interpret scenarios, identify relevant information, and choose appropriate operations. This approach also helps students see the relevance of math in everyday life, which can increase motivation and engagement.

Balancing Procedural Fluency with Conceptual Understanding

While mastering addition and subtraction facts is an essential goal, the standards advocate for a balance between speed and understanding. Educators strive to ensure that students know not only how to perform calculations but also why the procedures work. For example, understanding the concept of "making ten" aids in mental math strategies and fosters flexibility in problem-solving.

Comparative Perspectives: Common Core vs. Traditional Math Curricula

A recurring topic in educational discourse is how common core grade 1 math compares with more traditional curricula. Proponents argue that the Common Core's focus on depth over breadth allows for more meaningful learning experiences. Instead of rushing through numerous topics, students spend ample time mastering foundational concepts.

Critics, however, sometimes point to challenges such as increased complexity in word problems or the perceived difficulty for parents to assist with homework due to unfamiliar methodologies. These concerns highlight the need for clear communication and support for families to navigate the new standards effectively.

Pros and Cons of Common Core Grade 1 Math

1. Pros:

- Emphasizes critical thinking and problem-solving skills.
- Encourages understanding of mathematical concepts rather than memorization.
- Aligns with developmental stages of young learners.
- Prepares students for higher-level math with a solid foundation.

2. Cons:

- Can be challenging for parents unfamiliar with the approach to assist their children.
- Some educators report increased time demands to cover standards thoroughly.
- Variability in implementation can lead to inconsistent student experiences.

Resources and Tools Supporting Common Core Grade 1 Math

Effective implementation of common core grade 1 math often depends on access to quality resources. Numerous digital platforms, worksheets, and interactive games are tailored to align with the standards, providing engaging ways for students to practice skills.

Popular Educational Platforms

Programs such as Khan Academy, IXL, and DreamBox Learning offer adaptive learning experiences that adjust to individual student needs. These platforms typically feature activities aligned with Common Core standards, covering domains like addition, subtraction, and basic geometry, thereby supplementing classroom instruction.

Print and Hands-On Materials

Workbooks and printable worksheets remain valuable for reinforcing concepts, especially when combined with manipulatives and teacher-led instruction. Tools like base-ten blocks and fraction circles allow students to physically interact with abstract ideas, a method supported by the Common Core framework.

Assessing Progress and Mastery in Common Core Grade 1 Math

Assessment under the Common Core is designed to be both formative and summative, aiming to monitor student progress and guide instruction. Standardized tests aligned with the standards evaluate not just computational skills but also problem-solving abilities and conceptual understanding.

Educators often employ ongoing assessments such as exit tickets, quizzes, and observational checklists to gauge comprehension in real time. This continuous feedback loop enables timely interventions, ensuring students do not fall behind as concepts build upon one another.

The focus on mastery rather than mere completion encourages educators to revisit challenging topics and provide differentiated support tailored to each student's needs.

While debates about the Common Core continue, the grade 1 math standards undeniably represent a thoughtful attempt to elevate early mathematics education. By prioritizing understanding, application, and cognitive development, common core grade 1 math strives to equip young learners with the skills necessary for academic success and everyday problem-solving. As educational communities continue to refine pedagogical practices and resources, the potential for these standards to positively shape math education remains significant.

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-Measurement and Data -Geometry -Practice Questions Practice makes perfect! -Detailed Answer Explanations Figure out where you went wrong and how to improve! Studying can be hard. We understand. That's why we created this guide. Each section of the test has a comprehensive review created by Test Prep Books. These reviews go into detail to cover all of the Common Core math examples. The Test Prep Books Common Core practice test questions are followed by answer explanations. If you miss a question, it's important to understand why. That way, you can avoid missing it again in the future. The answer explanations will help you learn from your mistakes. Knowing the latest test-taking strategies is essential for the exam. A test taker has to understand the material that is being covered. They also must be familiar with test strategies. These strategies are necessary to properly use the time provided. They also help test takers complete the test without making any errors. Test Prep Books has provided the top test-taking tips. Anyone planning to take this exam should take advantage of this Test Prep Books study guide. Purchase it today to receive access to: -Common Core math worksheets -Updated Common Core math problems -Test-taking strategies for Common Core math standards

common core grade 1 math: *Math Practice, Grade 1* , 2014-03-15 Kelley Wingate's Math Practice for first grade is designed to help students master basic math skills through focused math practice. Practice pages will be leveled in order to target each student's individual needs for support. Some pages will provide clear, step-by-step examples. The basic skills covered include addition, subtraction, place value, measurement, geometric shapes, and a comprehensive selection of other first grade math skills. This well-known series, Kelley Wingate, has been updated to align content to the Common Core State Standards. The 128-page books will provide a strong foundation of basic skills and will offer differentiated practice pages to make sure all students are well prepared to succeed in today's Common Core classroom. The books will include Common Core standards matrices, cut-apart flash card sections, and award certificates. This series is designed to engage and recognize all learners, at school or at home.

common core grade 1 math: Teaching the Common Core Math Standards with Hands-On Activities, Grades K-2 Erin Muschla, Judith A. Muschla, Gary R. Muschla, 2014-09-17 Start young children off with Common Core math using these innovative activities Teaching the Common Core Math Standards with Hands-On Activities, Grades K-2 provides teachers with the help they need to begin teaching to the new standards right away. The book outlines the Common Core math standards from kindergarten to second grade, providing one classroom-ready activity for each standard, plus suggestions for variations and extensions for students of different learning styles and abilities. Along with teaching the required mathematical concepts and skills, many of the activities encourage collaboration, technology utilization, written and oral communication, and an appreciation of the significance of mathematics in modern life. As the Common Core is adopted across the nation, teachers are scrambling to find information on CCSS-aligned lesson planning and classroom activities. This comprehensive guide answers that need, providing both the background information and practical, applicable guidance that can bring the Common Core into the classroom today. The activities include: Abstract and critical thinking using mathematical reasoning Problem-solving strategies and calculation proficiency Math fluency, and an understanding of mathematical concepts and skills Applying mathematical understanding to real life problems Early confidence and success in math is critical to a student's future performance. Math anxiety and a shaky foundation can hinder a student's potential far into the future, giving elementary math teachers a huge role in shaping their students' academic lives. The Common Core has set the bar, and Teaching the Common Core Math Standards with Hands-On Activities, Grades K-2 brings the standards to life.

common core grade 1 math: Common Core Standards for Elementary Grades K-2 Math & English Language Arts Amber Evenson, Monette McIver, Susan Ryan, Amitra Schwols, 2013-05-20 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning, teaching, and learning. This Quick-Start Guide provides a succinct, all-in-one look at * The content, structure,

terminology, and emphases of the Common Core standards for mathematics and English language arts and literacy in the lower elementary grades. * The meaning of the individual standards within each of the four ELA/literacy strands and five math domains, with an emphasis on areas that represent the most significant changes to business as usual. * How the standards connect across and within strands, domains, and grade levels to develop the foundational language arts, literacy, and mathematics understanding that will support a lifetime of successful learning. Here, teachers of grades K-2 and elementary school leaders will find information they need to begin adapting their practices to help all students master the new and challenging material contained in the standards. A practical lesson planning process to use with the Common Core, based on Classroom Instruction That Works, 2nd Ed., is included, along with six sample lessons. LEARN THE ESSENTIALS OF THE COMMON CORE The grade-level and subject-specific Quick-Start Guides in the Understanding the Common Core Standards series, edited by John Kendall, are designed to help school leaders and school staffs turn Common Core standards into coherent, content-rich curriculum and effective, classroom-level lessons.

common core grade 1 math: Eureka Math Grade 1 Study Guide Great Minds, 2015-09-18 Eureka Math is a comprehensive, content-rich PreK-12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics (CCSSM) and carefully sequences the mathematical progressions into expertly crafted instructional modules. The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location, unpacking the standards in detail so that both users and non-users of Eureka Math can benefit equally from the content presented. Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year, information on alignment to the instructional shifts and the standards, design of curricular components, approaches to differentiated instruction, and descriptions of mathematical models. The Study Guides can serve as either a self-study professional development resource or as the basis for a deep group study of the standards for a particular grade. For teachers who are new to the classroom or the standards, the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful. Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year. The Eureka Math Curriculum Study Guide, Grade 1 provides an overview of all of the Grade 1 modules, including Sums and Differences to 10; Introduction to Place Value Through Addition and Subtraction Within 20; Ordering and Comparing Length Measurements as Numbers; Place Value, Comparison, Addition and Subtraction to 40; Identifying, Composing, and Partitioning Shapes; and Place Value, Comparison, Addition and Subtraction to 100.

common core grade 1 math: Common Core Standards a Step-By-Step Approach: Mathematics - Grades K-5 Toby Karten, 2012-01-01 Excelling at math is no longer simply a matter of getting answers right. Today, the Common Core State standards require not only computational fluency, but also a deep level of comprehension and critical thinking skills. Common Core Standards: A Step-by-Step Approach - Mathematics, Grades K-5 guides teachers in implementing instruction that builds the full range of mathematics skills outlined in the Common Core State Standards for Mathematics. Written by Toby Karten, an educator with more than 30 years of experience, this six-page (tri-fold) laminated guide clearly identifies that process. Strategies are offered for individual grade-level teaching, from kindergarten through fifth grade. Examples and suggestions for differentiating instruction to meet the unique needs and learning styles of diverse students in inclusive classrooms are offered as well in this comprehensive tool for teachers.

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guide offers a blueprint for implementing and exceeding the new standards using very targeted professional development. Readers will find realistic strategies supported by examples from a diverse range of schools. Topics include Empowering teachers and staff as partners in planning for and implementing the new standards Adapting existing curriculum to meet goals for mathematics and language arts at each grade level Designing assessments that measure mastery of the standards Ensuring that the standards benefit learning for all students, including multicultural learners Lead your school or district in fulfilling the promise of the Common Core State Standards and preparing students for a competitive global economy. This book looks at the implementation of CCSS within the context of all of the components that face public schools, and, in doing so, puts the CCSS in a proper perspective. This is a book that could actually help make a difference in the improvement of instruction in the public schools. —Martin J. Hudacs, Superintendent Solanco School District, Quarryville, PA Making the Common Core Standards Work provides a detailed approach to systems thinking and how to manage a real-life paradigm shift. —William Richard Hall, Jr., Principal R. C. Longan Elementary School, Henrico, VA

common core grade 1 math: Teaching to the Math Common Core State Standards F. D. Rivera, 2014-02-05 This is a methods book for elementary majors and preservice/beginning elementary teachers. It takes a very practical approach to learning to teach elementary school mathematics in an emerging Age of the Common Core State Standards. The Common Core State Standards in Mathematics (CCSSM) is not meant to be “the” official mathematics curriculum; it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace. A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the kindergarten through grade 5 portions of the CCSSM first, with issues in content-practice assessment, learning, teaching, and classroom management pursued next and in that order. In this book we explore what it means to teach to the CCSSM within an alignment mindset involving content-practice learning, teaching, and assessment. The CCSSM content standards, which pertain to mathematical knowledge, skills, and applications, have been carefully crafted so that they are teachable, learnable, coherent, fewer, clearer, and higher. The practice standards, which refer to institutionally valued mathematical actions, processes, and habits, have been conceptualized in ways that will hopefully encourage all elementary students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation. Thus, in the CCSSM, proficiency in content alone is not sufficient, and so does practice without content, which is limited. Content and practice are both equally important and, thus, must come together in teaching, learning, and assessment in order to support authentic mathematical understanding. This blended, multisourced text is a “getting smart” book. It helps elementary majors and preservice/beginning elementary teachers work within the realities of accountable pedagogy and develop a proactive disposition that is capable of supporting all elementary students in order for them to experience growth in mathematical understanding necessary for middle school and beyond, including future careers.

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common core grade 1 math: Arithmetic Counts! Paul Shoecraft, 2025-01-24 Dr. Shoecraft may be the only mathematician since the New Math in the 1960s to seriously analyze the “lowly” subject of arithmetic and how to teach it. His breakthrough came when he experimented with teaching what needs to be understood instead of “known” (memorized), like teaching why addition problems until the algorithm they are using supposedly becomes cemented in their brains. By teaching the essence of arithmetic in sensible ways and appealing to children’s love of games, songs, and movement, he’s proven that virtually ALL children can learn arithmetic — the foundation of algebra, higher mathematics, science, technology, and more, even music! When children understand arithmetic, they own it. It’s no lonver just their teacher’s math. It’s their math! America’s children are being held back in math because of how arithmetic is drug out in elementary school. Virtually

every textbook-based elementary school math program in use today is mind-numbing in its repetitiveness from grade to grade. The reason for the redundancy is to slow down the teaching of arithmetic so it can be memorized. Research shows that the human brain is not designed to remember things learned by rote when no longer practiced. That's acknowledged in the "use-it-or-lose-it" aphorism that states the obvious, that we remember what we use and forget what we don't. You know that to be true if you've ever forgotten things you once knew as well as your own name — things like an old address or a license plate number. Every child can understand base ten numeration when taught hands-on with arithmetic blocks. Thereby, every child can understand base ten arithmetic. And every child can learn how to count out the number facts, like $5 + 7 = 12$, $17 - 8 = 9$, $6 \times 7 = 42$, and $56 \div 7 = 8$, and, if they forget one, never have to guess and risk ridicule and bad grades if they guess wrong. What matters in teaching arithmetic is not how much a child can remember but how much they can figure out if/when they forget.

common core grade 1 math: Mathematics, the Common Core, and RTI Dolores Burton, John Kappenberg, 2013-09-12 Don't let the revolution in math education pass your teachers by! By now, most teachers have a shelf full of books, articles, and reports on the Common Core and RTI. But where's the resource that addresses how the two fit together? Individually, the Common Core and RTI are formidable enough. Together, they create a perfect storm of challenges, with most teachers left wondering where to turn first. Finally, here's a guide that distills the central elements of the Common Core and RTI into a single, manageable resource that provides strategies for serving all students. You will find: • Real-world scenarios based on actual school-based issues • Multiple classroom-ready work samples • Content-area applications of RTI, including math vocabulary and literacy • A focus on instructional technology, with references to online resources in every chapter • Preparation for future developments in state and national educational policy With additional guidance on students with special needs, behavioral issues, English language learners, and parent involvement, this all-in-one resource gives your teachers a distinct advantage in providing the superior math instruction all students deserve. Burton and Kappenberg have done a great service to teachers by combining Common Core and RTI into one easy-to-use text. —Deb Bible, RTI Interventionist Dundee Highlands School, West Dundee, IL Anyone involved in the development of mathematic teachers and who is currently a mathematics teacher will find this book to be a resource to effectively unify instructional strategies to teach all students. —Satasha Green, Dean of Education New York Institute of Technology

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common core grade 1 math: Uncovering Student Thinking About Mathematics in the Common Core, Grades K-2 Cheryl Rose Tobey, Emily R. Fagan, 2013-05-31 Get to the core of your students' understanding of math! Back by popular demand, Cheryl Tobey and new coauthor Emily Fagan bring you 25 entirely new formative assessment probes—this time specifically for Grades K-2 and directly aligned to the Common Core. Thousands of teachers have already discovered that using probes may be the single-best way to identify students' understandings and misunderstandings of key math concepts and then follow-up with the most appropriate instructional choices. Organized by strand, the probes will enable you to: Objectively evaluate each child's prior basic numeracy and math knowledge Systematically address common mistakes and obstacles before they become long-term problems Help students integrate new mathematical ideas and immediately pinpoint areas of struggle Plan targeted instruction that builds on students' current understandings while

addressing their identified difficulties With the help of these probes, K-2 teachers will eliminate once and for all the perception some kids just aren't good at math and put all students on the path of lifelong proficiency. Tobey and Fagan provide both a roadmap and GPS for navigating the Common Core Standards for Mathematics. In a time when teachers are asked to do more and more, this is a fabulous resource to guide instruction that will meet the needs of individual students. I was so impressed with the content, I found myself taking copious notes as I read. —Roxie R. Ahlbrecht, Math Intervention Specialist Lowell MST, Sioux Falls, SD These probes get to the heart of the Common Core Standards. The Teacher Notes provide valuable guidance on interpreting student results and using the information to inform instruction. —Donna Boucher, K-5 Math Instructional Coach Morton Ranch Elementary School, Katy ISD, Katy, TX

common core grade 1 math: Tyranny of the Textbook Beverlee Jobrack, 2011-12-23 Educational reforms and standards have been a topic of public debate for decades, with the latest go-round being the State Common Core Curriculum Standards. But time and again those reforms have failed, and each set of standards, no matter how new and different, has had little impact on improving student achievement. Why? The textbooks. Textbooks sell based on design and superficial features, not because they are based on the latest research on how children learn and how well they promote student achievement. In *Tyranny of the Textbook*, Beverlee Jobrack, retired from educational publishing, sheds light on why this happens. She gives an engaging and fascinating look behind-the-scenes of how K-12 textbooks are developed, written, adopted, and sold. And, perhaps most importantly, she clearly spells out how the system can change so that reforms and standards have a shot at finally being effective. Did you know? Reform efforts have focused on writing and rewriting standards and tests, but these rarely have any effect on the core curriculum that is published. School districts and states don't use effectiveness as a criterion for evaluating and purchasing textbooks. Publishers don't offer textbooks with better content or the latest teaching methods because teachers don't want textbooks that require them to change their practices. Teachers report that they don't rely on a textbook in their class, but research shows that they do. Three companies publish 75 percent of the K-12 educational materials. Those three companies are producing similar programs with the same instructional strategies, none of which require teachers to change their practices significantly. Publishers write textbooks for California and Texas. All of the other markets have to make do with books only superficially adjusted for their states.

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