

MATHEMATICS PACING GUIDES <<COMMON CORE ACHIEVE, MCGRAW-HILL EDUCATION>>

TEXT AND STANDARDS	UNIT DESCRIPTIONS AND ASSESSMENT STANDARDS	COMPONENTS OF EFFECTIVE INSTRUCTION
<p>TEXT(S): COMMON CORE ACHIEVE- MATHEMATICS</p> <p>TEXT UNIT: CHAPTER 1, (pages 10-43)</p> <p>TOPIC: - NUMBER SENSE AND OPERATIONS</p> <p>SUGGESTED INTEGRATION OF ADDITIONAL TEXT:</p> <p><i>Achieving 6AB Success in Mathematics, Level 4 Workbook, pages 13-17, 32-34, 40-43, 48, 51, 58, 66, 69-71, 73</i></p> <p><i>Common Core Achieve: Mathematics Essential Book, Lessons 1.1-1.4</i></p> <p><i>Number Power: Transition Math, pages 1-34</i></p> <p><i>Number Power: Fractions, Decimals, and Percents, pages 17-18, 24, 64-65, 70-72</i></p> <p><i>Number Power: Pre-Algebra, pages 18-19, 24-25, 144-145</i></p> <p><i>Number Power: Algebra, pages 10-17, 22-23, 26-28, 152-153</i></p> <p><i>Workplace Skills: Applied Mathematics, Lessons 1.4, 20, 1.1, 16, 20</i></p> <p>DIGITAL RESOURCES: <i>Instruction Targeted for 6AB Success, Level 4, Mathematics, Lessons 1.1-1.2, 1.3, 4.1-4.2, 7.1, 11.2</i></p> <p><i>LearnSmart Achieve Adaptive, Mathematics, Lessons 1.1, 1.2, 1.3, 1.4</i></p> <p><i>Mathspace Online, Mathematics, Lessons 1.1-1.4</i></p> <p><i>Workforce Connects Applied Mathematics, Lessons 1.1, 1.4, 4.6, 4.7, 5.7, 6.7</i></p>	<p>WITH 1</p> <p>UNIT TITLE: 1- NUMBER SENSE AND OPERATIONS</p> <p>LESSON(S) TITLE: 1.1- Order Rational Numbers on a Number Line; 1.2- Apply Number Properties; 1.3- Compute with Exponents; 1.4- Compute with Roots</p> <p>TEXT LESSON OBJECTIVES:</p> <p>1.1-Identify rational numbers; Order fractions and decimals on a number line; Calculate absolute value</p> <p>1.2-Determine LCM and GCF of two positive numbers (not necessarily different); Apply number properties (Distributive, Commutative, and Associative Properties) to rewrite numerical expressions; Determine when a numerical expression is undefined</p> <p>1.3-Apply rules of exponents to expressions; Perform operations on numbers written in scientific notation; Solve real-world problems involving squares and cubes</p> <p>1.4-Perform computations with square and cube roots; Solve real-world problems involving square and cube roots; Simplify expressions involving roots using the properties of rational exponents</p> <p>BEFORE, DURING & AFTER MATH STRATEGIES:</p> <p>Apply Number Sense- convert fractions to decimals when comparing mixed fractions and decimals, since decimals are an easier way to compare numbers- page 13</p> <p>Use Math Tools Appropriately- use a number line to determine the order of numbers from least to greatest, reading from the left to the right, discuss the similarity of a thermometer scale to the number line- page 16</p> <p>Apply Number Sense Concepts- Use GCF to reduce fractions, and LCM when adding or subtracting fractions- Decide which to use to solve a problem- page 21, (pg 4)</p> <p>Perform Operations- the addition of parentheses changes the value of an expression when using the order of operations- page 24, (pg 4)</p> <p>Represent Real World Problems- Challenge students to explain why any problem about the area of squares or square units can be modeled with an exponential expression- (pg 9, page 26, consider the unit of measure when solving problems involving measurements to determine the type of root needed (cubic/cube, square/square)- page 37</p> <p>Make Use of Structure- use the properties of exponents to understand why any number raised to a power of 0 is 1, then explain negative exponents using the reciprocal of the positive exponent- page 30</p> <p>Attend to Precision- means to ensure that the correct property is used with radicals, which numbers to use to solve a problem and approximating to a given place value- use these guidelines to solve problem on page 40</p> <p>ADDITIONAL STRATEGIES:</p> <p>Workplace Skill- calculate dollar amount in situations that involve money- page 13</p> <p>Calculator Skills- on the TI-30XS MultiView™: convert numbers between fractions and decimals- page 24; division by zero (undefined expression) will give an error message (Divide by 0) on the calculator- what other expression is undefined and will give an error message?> page 25, use the calculator to figure squares and other positive and negative exponents- page 31; use the calculator to calculate square roots and cube roots- page 38</p> <p>HOME LEARNING: Skill Builder Activity (pg) 1-4, 7-8, 11-12, 15-16</p>	<p>ELL STRATEGIES:</p> <p>1.1- rational numbers (around) on- list the ones you used today, e.g. price of gas, street numbers, house numbers- (pg 1)</p> <p>1.2- ask students if they use grouping numbers (associative property) or rearranging numbers (commutative property) when they add or multiply – (pg 5)</p> <p>1.3-ask students for examples of the use of exponents or scientific notation (compound interest on a savings account)- (pg 9)</p> <p>1.4- have students list perfect squares and perfect cubes of roots from 0 to 15- (pg 13)</p> <p>VOCABULARY:</p> <p>1.1- absolute value, integers, rational number, denominator, numerator, order</p> <p>1.2-greatest common factor (GCF), least common multiple (LCM), order of operations, addend, factor, undefined</p> <p>1.3- rules, scientific notation, square, order of operations, reciprocal, standard notation</p> <p>1.4- cube root, rational exponent, square root, index, irrational numbers, prime factorization</p> <p>STUDENT PRODUCT/PROJECTS:</p> <p>21st Century Skills (Environmental Literacy)- determine the acceptable pH levels of pool water using absolute value- page 17, (Business Literacy)- determine a company's total profit (subtract operating costs from revenues)- page 21; (Health Literacy)- determine the length of all the red blood cells laid end to end using a length of 7x10¹² meters and an amount of 2.5x10¹²- page 31</p> <p>EXTENSION/ENRICHMENT ACTIVITY:</p> <p>ELL Instruction: Invite volunteers to label the number line and use it to explain the absolute value of numbers on the line in their own words (pg 2); Have students break apart the word <i>undefined</i> into its word parts—un- and define and give possible definitions (pg 42); Review the pronunciation of the first ten ordinal numbers, and have students repeat (pg 10); volunteers explain the relationships among the vocabulary words (pg 14)</p> <p>Extension Activity: Challenge students to work in pairs or independently to learn how scientists use scientific data to map the seafloor (pg 2); Ask the students to calculate the GCF and LCM of 48 and 72 then calculate 48 ÷ 72 and 72 ÷ 44 (pg 4); write common metric units of length as powers of 10 then measure lengths in the classroom written in scientific notation (pg 10); find the whole-number roots of the numbers 16, 25, 27, 36, 49, 50, 64, 81, and 100 (pg 14)</p> <p>COT TALK: Think About Math, pages 14, 16, 17, 21, 23, 25, 26, 31, 33, 41</p>
<p>CCSS STANDARDS EMBEDDED IN TEXT: MP4, MP5, MP6, MP7, N.N.2, 4.NS.1a</p>	<p>TABE CORRELATION TO TEXT: Math Computation: Integers: Addition, Subtraction, Order of Operations, Algebraic Operations: Computation with Roots & Radicals, Computation with Exponents</p> <p>Applied Mathematics: Number and Number Operations: Equivalent Forms, Factors/multiples/divisibility, Exponents & Scientific Notation</p>	<p>EVALUATION/ASSESSMENT: Vocabulary Review, Skill Review, Skill Practice, pages 18-19, 26-27, 30-31, 42-43 Chapter Review- pages 44-45</p>

Common Core Quarterly Mathematics Pacing Guide

**Ted H. Hull, Ruth Harbin Miles, Don S.
Balka**



Common Core Quarterly Mathematics Pacing Guide:

Deliberate and Courageous Principal Rhonda J. Roos, 2021-10-15 Fully step into your power as a school principal By delving deep into five essential leadership actions and five essential leadership skills you will learn how to grow in your role and accomplish incredible outcomes for your students and staff Author Rhonda J Roos provides clear direction for establishing a vision reframing conflict leaning into the positive and much more Study the five essential actions and five essential skills all leaders must adopt to develop successful high achieving schools Discover how to create a collective vision and learn next steps to move progress forward Observe strategies to maintain a positive outlook as you hone your leadership skills Review the most effective ways to manage time organize meetings and address other common concerns shared by principals at every level Receive reflection questions next steps and reproducible templates to deepen understanding of effective leadership Contents Introduction Part 1 Essential Leadership Actions Chapter 1 Establish a Vision Focused on Learning Chapter 2 Clarify the Essential Work Chapter 3 Create Teams to Move the Work Forward Chapter 4 Take Action Instead of Being Busy Chapter 5 Lead Effective Meetings Part 2 Essential Leadership Skills Chapter 6 Build Relationships Chapter 7 Reframe Conflict Chapter 8 Hold People Accountable Chapter 9 Lean Into the Positive Chapter 10 Turn Inward Closing References and Resources Index

The Mechanics of Teaching Margaret Jenkins, 2014-01-17 I was encouraged by colleagues to write a book about my teaching style The Mechanics of Teaching compares the analytical diagnostic qualities of automotive mechanics and teachers

Common Formative Assessment Kim Bailey, Chris Jakicic, 2011-10-11 Teams that engage in designing using and responding to common formative assessments are more knowledgeable about their own standards more assessment literate and able to develop more strategies for helping all students learn In this conversational guide the authors offer tools templates and protocols to incorporate common formative assessments into the practices of a PLC to monitor and enhance student learning

Curriculum and Teaching Dialogue Chara Haeussler Bohan, John L. Pecore, Franklin S. Allaire, 2020-08-01 Curriculum and Teaching Dialogue is a peer reviewed journal sponsored by the American Association for Teaching and Curriculum The purpose of the journal is to promote the scholarly study of teaching and curriculum The aim is to provide readers with knowledge and strategies of teaching and curriculum that can be used in educational settings The journal is published annually in two volumes and includes traditional research papers conceptual essays as well as research outtakes and book reviews Publication in CTD is always free to authors

Mathematics and Multi-Ethnic Students Yvelyne Germain-McCarthy, 2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of

race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students **The Principal as a**

Learning-Leader M. Scott Norton,Larry K. Kelly,2012-12-03 Expanding a principal s formal education and training The Principal as Learning Leader is a administrator s guide to improving student achievement showing practitioners how to focus on the individual academic performance of each and every student and to work with the school staff and community to develop a learning culture that supports student success Norton and Kelly show current principals how to assess their present behaviors relative to learning leadership Providing a clear definition of learning leadership and identifying successful practices most commonly implemented by true learning leaders this book features the administrative tools and accountability strategies that will allow principals to create a culture of learning leadership among all school personnel which is key to engaging students and the community in the learning process [Current Index to Journals in Education](#) ,1979-07

Research in Education ,1968 [Resources in Education](#) ,1997 **Comprehensive Dissertation Index** ,1984 [Te](#)
[HS&TJ](#) Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Common Core Math For Parents For**
Dummies with Videos Online Christopher Danielson,2015-03-27 Help your child succeed with a better understanding of Common Core Math Common Core Math For Parents For Dummies is packed with tools and information to help you promote your child s success in math The grade by grade walk through brings you up to speed on what your child is learning and the sample problems and video lessons help you become more involved as you study together You ll learn how to effectively collaborate with teachers and keep tabs on your child s progress so minor missteps can be corrected quickly before your child falls behind The Common Core was designed to improve college and career readiness and to prepare U S students to be more competitive on an international stage when it s time to enter the workforce This guide shows you how the standards were created and how they ve evolved over time to help ensure your child s future success The Common Core Math Standards prepare students to do real math in the real world Many new teaching methods are very different from the way most parents learned math leading to frustration and confusion as parents find themselves unable to help with homework or explain difficult concepts This book cuts the confusion and shows you everything you need to know to help your child succeed in math Understand the key concepts being taught in your child s grade Utilize the homework tools that help you help your child Communicate more effectively with your child s teacher Guide your child through sample problems to foster

understanding The Common Core was designed to ensure that every student regardless of location or background receives the education they need Math skills are critical to real world success and the new standards reflect that reality in scope and rigorousness Common Core Math For Parents For Dummies helps you help your child succeed *The Common Core Mathematics Companion: The Standards Decoded, Grades 3-5* Linda M. Gojak, Ruth Harbin Miles, 2015-05-28 Your user's guide to the mathematics standards In the 12 short months since the ELA versions of The Common Core Companions Grades K 2 and 3 5 burst on the scene they've already assisted tens of thousands of teachers with the day to day what you do Teachers one big criticism what about mathematics Luckily NCTM past president Linda Gojak and mathematics coach Ruth Harbin Miles stepped up to the task The result That version of the mathematics standards you wish you had Page by page The Common Core Mathematics Companions clearly lay out The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Don't spend another minute poring over the mathematics standards Gojak and Miles have already done the heavy lifting for you Focus instead on how to teach them using The Common Core Mathematics Companion as your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum **Math Common Core** Speedy Publishing, 2014-08-25 The best way to prepare for the math standardized test is by using a Math Common Core Study Guide The Study Guide will ensure that you not only know the material that was covered but that you can practically apply it as well Study Guides will identify the types of questions used on the test and will also provide practice questions for you to review A Study Guide also offers test taking strategies to help you answer the questions correctly The Math Common Core Study Guide will provide the tools you need to score proficient on the Math standardized test *Common Core Mathematics, A Story of Functions: Algebra II, Module 2* Common Core, 2015-01-20 The most comprehensive Common Core State Standards based mathematics curriculum available today Common Core Math embodies the instructional shifts and the standards for mathematical practice that are fundamental to the CCSS The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself With Common Core Mathematics eleventh graders learn about polynomial rational and radical relationships trigonometric functions as well as making inferences and conclusions from data This module introduces tenth graders to trigonometric functions Modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative

assessments are included to support data driven instruction Carefully sequenced and expertly crafted Common Core Mathematics A Story of Units provides teachers with a reliable and practical guide to guiding and inspiring students while adhering to the standards of the Common Core State Standards Parent's Guide to Common Core Math, Grades K-5 Robyn Ricci Wood,Jim Brennan,2015-03 The Common Core a new set of national educational standards has been adopted by 45 states across the nation But you may be having a hard time understanding what your kids are bringing home from school If you want to help your children with their homework you need to learn these new methods which focus on critical thinking and conceptual understanding With the help of math teacher you ll learn what your child will be learning in grades K 5 the multiple new ways to look at math problems the rationale behind the Common Core math standards and how to help your child with homework and studying **Teaching the Common Core Math Standards with Hands-On Activities, Grades 3-5** Judith A. Muschla,Gary R. Muschla,Erin Muschla-Berry,2014-03-10 Helping teachers prepare elementary students to master the common core math standards With the common core math curriculum being adopted by forty three states it is imperative that students learn to master those key math standards Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 is the only book currently available that provides activities directly correlated to the new core curriculum for math This text assists teachers with instructing the material and allows students to practice the concepts through use of the grade appropriate activities included Students learn in different ways and Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 acknowledges that fact through the inclusion of suggestions for variations and extensions of each concept to be used for students with different abilities and learning styles The activities and lessons are as diverse as the students in your classroom Inside Teaching with Common Core Math Standards With Hands On Activities Grades 3 5 you will find Clear instructions to help you cover the skills and concepts for the new math core curriculum Engaging activities that enforce each core math standard for your students Various suggestions for ways to instruct the concepts to reach the diverse learning styles of your students Complete coverage of mathematical calculations mathematical reasoning and problem solving strategies appropriate for grades 3 5 Teaching the Common Core Math Standards with Hands On Activities Grades 3 5 prepares students to achieve success in the important area of mathematics As your students gain an understanding of the common core standards they will build confidence in their ability to grasp and manipulate mathematical concepts as they move forward to the next level **Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12** Gary R. Muschla,2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9 12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math

communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities If you want to bring new ideas into the classroom today look no further Teaching Common Core Math Standards with Hands On Activities is the high school math teacher s solution for smart engaging Common Core math *Common Core Mathematics in a PLC at Work®*, *Leader's Guide* Timothy D. Kanold, 2012-06-15 This leader companion to the grade level teacher guides illustrates how to sustain successful implementation of the Common Core State Standards for mathematics Discover what students should learn and how they should learn it Comprehensive research affirmed analysis tools and strategies will help collaborative teams develop and assess student demonstrations of deep conceptual understanding and procedural fluency

The Common Core Mathematics Standards Ted H. Hull, Ruth Harbin Miles, Don S. Balka, 2012-04-17 Transform math instruction with effective CCSS leadership The Common Core State Standards CCSS for mathematics describe the habits of mind that teachers should develop in their students without which the content standards cannot be successfully implemented This professional development resource helps principals and math leaders grapple with the changes that must be addressed so that teachers can implement the practices required by the CCSS Features include A clear explanation of the CCSS for Mathematical Practice Techniques to help leadership teams collaboratively implement and maintain the new standards A proficiency matrix with examples of instructional strategies for helping students reach competency in each standard An example of how a fourth grade classroom might implement the CCSS Readers will find reproducible pullout tools to help with the change process including an instructional sequence chart A comprehensive and easy to use resource for teachers district and school leaders and mathematics curriculum coordinators The Common Core Mathematics Standards provides the definitive road map for leading the change necessary to align math instruction with best practices

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