

**EDUC 450: Professional Clinical Practice**  
**Reflective Lesson Plan Model**

Name: Steven Walker

Date: 2/21/14

**PART I: PLANNING**

<b>Title of Lesson</b>	<b>Comparing Rational Numbers</b>
<b>Source</b>	<i>Is this lesson original idea? If not, from what source did I borrow this lesson?</i> <ul style="list-style-type: none"> <li>• South Carolina PASS Coach 7<sup>th</sup> Grade Mathematics workbook</li> <li>• Carnegie Learning Resource</li> </ul>
<b>Subject Area (s)</b>	<b>Mathematics</b>
<b>Grade Level</b>	<b>7<sup>th</sup></b>
<b>Curriculum Standards</b>	<ul style="list-style-type: none"> <li>• <b>7-2.2-</b> Represent the location of rational numbers and square roots of perfect squares on a number line.</li> <li>• <b>7-2.3-</b> Compare rational numbers, percentages, and square roots of perfect squares by using the symbols <math>&lt;</math>, <math>&gt;</math>, <math>\leq</math>, <math>\geq</math>, and <math>=</math>.</li> </ul>
<b>Description and Background Information</b>	Describe the lesson's activities and content to provide a clear overview of the lesson. TLWBAT compare rational numbers by translating them into one type of number: fraction, decimal, or whole number "depending on given numbers" and putting points on the number line.
<b>Lesson Objectives</b>	What will students be able to do at the conclusion of this lesson? Make sure that your objective(s) are measurable. TLWBAT compare rational numbers using inequalities and putting points on the number line.
<b>Varying Objectives for Individuals Needs</b>	How will I vary these objectives for students who do not understand the material? Students who are new to rational numbers, at the beginning of the lesson I will explain to the students what rational numbers are and how they can be translated into different types of rational numbers. How will I vary these objectives for students who have already mastered the concept? These students will be given extra practice comparing larger numbers as the rest of the class catches up to them. How will I vary these objectives for students who are presently learning English? These students will be given the same notes and will work with their mentors to get the best understanding they can get. Also they can see me after school for more assistance.
<b>Statement of Purpose</b>	<i>Why is it important for the students to learn this content?</i> This lesson will open the door for students as they will need to know how to compare percentages, taxes, tips, and know how to translate rational numbers, knowing that just because a number is written one way doesn't mean it cannot be written another way.

# Lesson Plan Rational Numbers

**Helene J. Sherman, Lloyd I.  
Richardson, George J. Yard**

## **Lesson Plan Rational Numbers:**

**The Mathematics Lesson-Planning Handbook, Grades 6-8** Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6-8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6-8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6-8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners Teaching to the Math Common Core State Standards F. D. Rivera, 2015-06-17 This is a methods book for preservice middle level majors and beginning middle school teachers It takes a very practical approach to learning to teach middle 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 Grade 5 through Grade 8 and traditional pathway Algebra I 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 Common Core state 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 middle school

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 prepares preservice middle-level majors and beginning middle school teachers to work within the realities of accountable pedagogy and to develop a proactive disposition that is capable of supporting all middle school students in order for them to experience growth in mathematical understanding that is necessary for high school and beyond, including future careers.

*Teaching Secondary and Middle School Mathematics* Daniel J. Brahier, 2024-01-22

*Teaching Secondary and Middle School Mathematics* combines the latest developments in research, technology, and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics. The book explores the mathematics teaching profession by examining the processes of planning, teaching, and assessing student progress through practical examples and recommendations. Beginning with an examination of what it means to teach and learn mathematics, the reader is led through the essential components of teaching, concluding with an examination of how teachers continue with professional development throughout their careers. Hundreds of citations are used to support the ideas presented in the text, and specific websites and other resources are presented for future study by the reader. Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms. The seventh edition has been updated and expanded with particular emphasis on the latest technology, standards, and other resources. The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success. Features include:

- Following on from the sixth edition, assessment takes a central role in planning and teaching. Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices. A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices.
- The feature entitled *Links and Resources* has been updated in each of the 13 chapters. Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic.
- Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics.
- Significant revisions have been made to Chapter 12, which now includes updated research and practices as well as a discussion on culturally responsive pedagogy.
- Likewise, Chapter 8 now includes a description of best and high-leverage teaching practices, and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added.
- Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers, including apps that can be run on

handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor's Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at [www.routledge.com/9781032472867](http://www.routledge.com/9781032472867) *How Chinese Teach Mathematics and Improve Teaching* Yeping Li, Rongjin Huang, 2013 *How Chinese Teach Mathematics and Improve Teaching* builds upon existing studies to examine mathematics classroom instruction in China It combines contributions from Chinese scholars with commentary from key Western scholars to offer a truly systematic examination of some important and distinctive features of mathematics classroom instruction Viewing classroom instruction as part of teachers' instructional practices this book goes beyond teachers in classroom instructional practice by also examining Chinese teachers' approaches and practices in developing and improving teaching Through this unique approach *How Chinese Teach Mathematics and Improve Teaching* expands and unpacks the otherwise fragmented knowledge about Chinese practices in developing and carrying out mathematics classroom instruction

**Teaching Mathematics in Grades 6 - 12** Randall E. Groth, 2012-08-10 A journey into the vibrant and intriguing world of mathematics education *Teaching Mathematics in Grades 6-12* explores how research in mathematics education can inform teaching practice in grades 6-12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students' mathematical thinking and then connecting this research to practices that enhance students' understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross-cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6-12 classrooms and how students' thinking may develop in response to different teaching strategies

**Future-Ready Teaching With AI** Aaron Blackwelder, Jason Cowley, 2024-12-21 Prepare your students for a future where AI literacy is crucial Artificial intelligence (AI) is here and seems on the brink of transforming education As teachers we know that AI will not diminish the need for students to learn essential skills It will however change how we teach and will require us to develop new skill sets for instruction and assessment Teachers have a new opportunity to embrace future-ready instruction that prepares students to engage in a world that expects them to be AI-literate In *Future-Ready Teaching With AI: Unlocking Student Potential in the Age of Artificial Intelligence* authors Aaron Blackwelder and Jason Cowley explore the integration of AI in the classroom and its potential to revolutionize teaching Much more than simply a book about using AI tools this rich resource aims to help teachers raise rigor increase engagement and promote more meaningful learning opportunities in their classrooms as they embrace the future of teaching and learning Offering evergreen principles and strategies to help educators navigate the age of AI this book encourages critical thinking about the ethical use of AI to foster conversations with students Highlights

various practical tools that can help teachers meet diverse student learning needs as well as create AI proof assignments Includes chapter vignettes sample AI prompts activities reflective questions and links to online resources to support teachers work in the classroom Examines how to leverage AI to streamline rudimentary tasks such as lesson planning assessment and differentiation allowing teachers to focus on building relationships providing feedback and personalizing learning for their students Written by two secondary teachers this book is an essential resource for K 12 teachers and administrators looking to move beyond the basics of using AI By equipping educators to become leaders in this transformation Future Ready Teaching With AI demonstrates how to harness the power of AI to help every student thrive *Your Mathematics Standards Companion, High School* Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2018-02-06

Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning *Your Mathematics Standards Companion* is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics curriculum in any state or district *The Common Core Mathematics Companion: The Standards Decoded, High School* Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2017-09-12

Your User s Guide to the Mathematics Standards When it comes to mathematics standards aligned is achievement aligned In the short time since *The Common Core Mathematics Companions* for grades K 2 3 5 and 6 8 burst on the scene they have been lauded as the best resources for making critical mathematics ideas easy to teach With this brand new volume high school mathematics success is at your fingertips Page by page the authors lay out the pieces of an in depth explanation including The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number quantity algebra functions geometry and statistics and probability building from the 8th grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and

descriptions of what teachers and students should be doing to foster deep learning The Common Core Mathematics Companion The Standards Decoded High School has what every high school teacher needs to provide students with the foundation for the concepts and skills they will be expected to know **Today's Mathematics, Activities and Instructional Ideas** James W. Heddens, William R. Speer, 2000-08-31 This classic allows readers to easily build a valuable set of ideas and reference materials for actual classroom use Designed to aid the teacher in understanding mathematical concepts and relationships the authors reflect recent recommendations from the National Council of Teachers of Mathematics Standards 2000 **Every Math Learner, Grades 6-12** Nanci N. Smith, 2017-02-02 Differentiation that shifts your instruction and boosts ALL student learning Nationally recognized math differentiation expert Nanci Smith debunks the myths surrounding differentiated instruction revealing a practical approach to real learning differences Theory lite and practice heavy this book provides a concrete and manageable framework for helping all students know understand and even enjoy doing mathematics Busy secondary mathematics educators learn to Provide practical structures for assessing how students learn and process mathematical concepts information Design implement manage and formatively assess and respond to learning in a standards aligned differentiated classroom Adjust current materials to better meet students needs Includes classroom videos and a companion website *Math Teacher's Survival Guide: Practical Strategies, Management Techniques, and Reproducibles for New and Experienced Teachers, Grades 5-12* Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2010-03-08 Classroom tested strategies to help new and experienced math teachers thrive Math teachers must not only instruct their students in basic mathematical skills and concepts they must also prepare them for standardized tests provide instruction in the use of technology and teach problem solving and critical thinking skills At the same time they must also manage their other responsibilities taking attendance planning grading record keeping disciplining and communicating with parents and administrators This book provides efficient and practical information on the management skills necessary to succeed in this most challenging profession Offers realistic suggestions and strategies for planning and delivering effective math instruction Helps math teachers achieve excellence and continue to be enthusiastic and successful in their teaching careers Includes reproducible forms to help math teachers stay on top of everything they need to do The Math Teacher's Survival Guide contains a wealth of useful tools and strategies that can help any math teacher succeed in the classroom

**Teaching Learners Who Struggle with Mathematics** Helene J. Sherman, Lloyd I. Richardson, George J. Yard, 2019-03-07 Highly regarded by instructors in past editions for its sequencing of topics and extensive set of exercises the latest edition of Abstract Algebra retains its concrete approach with its gentle introduction to basic background material and its gradual increase in the level of sophistication as the student progresses through the book Abstract concepts are introduced only after a careful study of important examples Beachy and Blair's clear narrative presentation responds to the needs of inexperienced students who stumble over proof writing who understand definitions and theorems but cannot do the

problems and who want more examples that tie into their previous experience The authors introduce chapters by indicating why the material is important and at the same time relating the new material to things from the student s background and linking the subject matter of the chapter to the broader picture Building proficiency in learning mathematics by tailoring instruction to students specific misconceptions and learning needs is the backbone of this indispensable text written for K 8 pre and inservice teachers as well tutors An important theme is that long term retention is based on a strong conceptual foundation of numeracy and on a well designed learning environment Each chapter deals with a different mathematics topic including whole numbers fractions decimals as well as time and money Chapters also include examples of error patterns and specific well defined strategies and activities for diagnosis prescription and remediation New to this edition is a chapter devoted to English language learners The complexities of language barriers are delineated along with reasons that students struggle with learning English and mathematics at the same time An audio file of common mathematics terms translated from English into most often spoken languages by ELLs can be accessed at [www.youareamathperson.com](http://www.youareamathperson.com) Outstanding features Response to Intervention RTI model underpins discussions of differentiating instruction Mathematics content reflects components of the Common Core State Standards Initiative for Mathematics and the National Council of Teachers of Mathematics Principles and Standards for School Mathematics Case studies and student examples promote a sound understanding of learners varied cognitive behavioral and physical needs Discussion questions challenge readers to think more deeply about the application and utility of concepts related to the error patterns Step by step directions for interactive instructional classroom games and activities are provided to extend and enrich teaching and learning **Academic**

**Language/Literacy Strategies for Adolescents** Debra L. Cook Hirai,Irene Borrego,Emilio Garza,Carl Kloock,2013-02-01 Fast paced practical and innovative this text for pre service and in service teachers features clear easily accessible lessons and professional development activities to improve the delivery of academic language literacy education across the content areas in junior middle school and high school classrooms Numerous hands on tools and techniques demonstrate the effectiveness of content area instruction for students in a wide variety of school settings particularly English language learners struggling readers and other special populations of students Based on a strong professional development model the authors have been instrumental in designing Academic Language Literacy Strategies for Adolescents addresses motivation attributes of academic language vocabulary theory and practice reading skills development grammar and writing A wealth of charts graphs and lesson plans give clear examples of academic language literacy strategies in action The appendices a key component of the practical applications developed in the text include a glossary exemplary lessons that address key content areas and a Grammar Handbook In this era of increased accountability coupled with rapid demographic change and challenges to traditional curricula and pedagogical methods educators will find this book to be a great resource 100  
Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12) Marcia L. Tate,2019-07-24 Use research and brain



based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all

**Teaching Secondary School Mathematics: Techniques And Enrichment** Alfred S Posamentier, Beverly Smith, 2020-09-18 The primary aim of this book is to provide teachers of mathematics with all the tools they would need to conduct most effective mathematics instruction The book guides teachers through the all important planning process which includes short and long term planning as well as constructing most effective lessons with an emphasis on motivation classroom management emphasizing problem solving techniques assessment enriching instruction for students at all levels and introducing relevant extracurricular mathematics activities Technology applications are woven throughout the text A unique feature of this book is the second half which provides 125 highly motivating enrichment units for all levels of secondary school mathematics Many years of proven success makes this book essential for both pre service and in service mathematics teachers

**The Role of the Speech-Language Pathologist in RtI** Wayne A. Foster, 2018-01-08 The Role of the Speech Language Pathologist in RtI Implementing Multiple Tiers of Student Support is an innovative resource for school based speech language pathologists SLPs The author examines the current interaction among special and general educators and identifies how SLPs best fit into a multitiered response to instruction process This collaboration requires school staff share the same vision on the operation of the system understand their respective roles and merge the curricular with the developmental perspective to build basic skills in support of student performance growth General educators have traditionally utilized the language of curriculum e g standards pacing guides formative and summative assessments to talk about student goals and achievement Special educators including SLPs most often utilize the language of development e g norms percentile ranks development milestones to measure student growth The Role of the Speech Language Pathologist in RtI assesses this apparent clash in nomenclature and identifies new ways for collaboration

and cooperation among faculty and administration In order for the SLP to be an effective partner in the development and implementation of RtI the author proposes that SLPs should understand the language of general education be able to translate the curricular needs of students into skill based units that can be measured and progress monitored have full understanding of the developmental progression of skills and how that progression links to curriculum standards and be knowledgeable on evidence based practices that can have a meaningful impact on closing developmental gaps and result in higher achievement outcomes This text provides the blueprint for the implementation of a system of student support that was envisioned in the 2004 reauthorization of the Individuals with Disabilities Education Improvement Act IDEIA Unlike other books on RtI this essential resource addresses the very specific roles that different school level professionals must play to make the system effective No other text provides SLPs with such a comprehensive schoolwide perspective on the different roles in the process the different languages used by the professionals in those roles and how to navigate those different perspectives

**Psychology of Education: Pupils and learning** Peter K. Smith, Anthony D. Pellegrini, 2000 *A New Invention: Cyclic Addition* Jeff Parker, 2013-12-31 Cyclic Addition is Mathematics acting upon Number to perfect Number This is accomplished by a Tool Kit consisting of Wheel Pattern Operation x Sequence Circle Cylinder and Common Multiple The Tool Kit acts within 5 Step by Step actions of Cyclic Addition These steps are Counting Place Value Move Tens Remainder and 7xMultiple Following this method and mathematics yields perfect Number All the while preserving the existing form of Base 10 place value Number

**OE [publication]** ,1969 **Developing Number Knowledge** Robert J Wright, David Ellemor-Collins, Pamela D Tabor, 2011-11-04 Following the great success of the earlier books this fourth book in the Mathematics Recovery series equips teachers with detailed pedagogical knowledge and resources for teaching number to 7 to 11 year olds Drawing on extensive programs of research curriculum development and teacher development the book offers a coherent up to date approach emphasising computational fluency and the progressive development of students mathematical sophistication The book is organized in key domains of number instruction including structuring numbers 1 to 20 knowledge of number words and numerals conceptual place value mental computation written computation methods fractions and early algebraic reasoning Features include fine grained progressions of instruction within each domain detailed descriptions of students strategies and difficulties assessment tasks with notes on students responses classroom ready instructional activities This book is designed for classroom and intervention teachers special education teachers and classroom assistants The book is an invaluable resource for mathematics advisors and coaches learning support staff numeracy consultants curriculum developers teacher educators and researchers

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### **Lesson Plan Rational Numbers Introduction**

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