

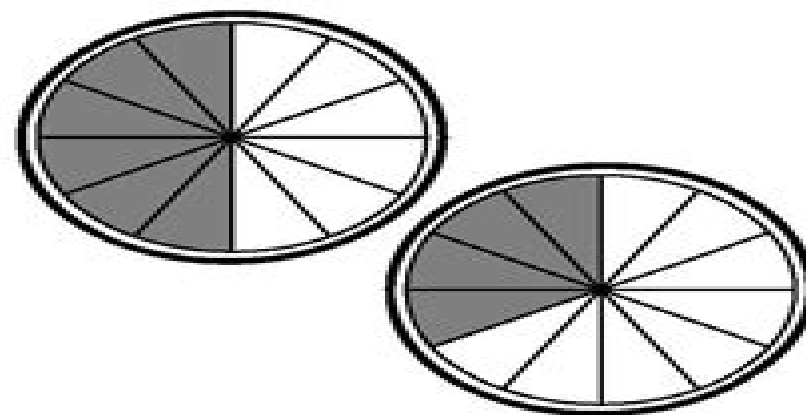
Comparing and Ordering Fractions

3rd–5th Grade

Objective

CCSS Math/Number and Operations-Fractions: 4.NF.2

- Extend understanding of fraction equivalence and ordering.
 2. Compare two fractions with different numerators and different denominators (e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$). Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$ or $<$, and justify the conclusions (e.g., by using a visual fraction model).



Materials Needed

- *Pizza Fractions* by Jerry Pallotta
- Chalkboard, whiteboard or document camera
- Fraction Pizza templates
- Comparing Fractions practice page and answer sheet
- Comparing Fractions activity card and recording sheet
- Comparing Fractions spinners and answer key
- Paper clips
- Pencils
- Pennies or other small objects (to use as game markers)

Preparation

Before teaching this lesson, you may want to introduce students to the concept of equivalent fractions. (Please visit http://www.lakeshorelearning.com/general_content/free_resources/teachers_corner/lesson_plans/equivalentFraction.jsp for a sample lesson.)

Introduction

Read aloud *Pizza Fractions* by Jerry Pallotta to give students a visual representation of fractions.

Procedure

1. Explain to students that they are going to compare and order fractions.
2. Print out and display the first two Fraction Pizza templates on the chalkboard, whiteboard or document camera.
3. Point out that the two pizzas are the same size, but the first pizza is cut into four slices and the second pizza is cut into eight slices. Ask students to identify which pizza has larger slices.
4. Say, "Imagine you are very hungry and someone offers you one slice of pizza. Would you rather have one slice of this pizza that is cut into fourths?" (Circle one of the slices on the first pizza and write " $\frac{1}{4}$ " beneath the pizza.) Then ask, "Or would you rather have one slice of this pizza that is cut into eighths?" (Circle one of the slices on the second pizza and write " $\frac{1}{8}$ " beneath the pizza.)

Lesson Plan Comparing Unit Fractions

**Marjorie M. Petit, Robert E.
Laird, Caroline B. Ebby, Edwin L.
Marsden**



Lesson Plan Comparing Unit Fractions:

The Mathematics Lesson-Planning Handbook, Grades 3-5 Ruth Harbin Miles, Beth McCord Kobett, Lois A. Williams, 2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In *The Mathematics Lesson Planning Handbook Grades 3 5 Your Blueprint for Building Cohesive Lessons* you ll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will Lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3 5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you ll feel confident structuring lessons that lead to high student achievement

Mathematics Unit Planning in a PLC at Work®, Grades 3--5 Sarah Schuhl, Timothy D. Kanold, Jennifer Deinhart, Matthew R. Larson, Mona Toncheff, 2020-03-24 Build collaborative teacher teams committed to fostering student self efficacy and increasing achievement in mathematics Part of the Every Student Can Learn Mathematics series this practical resource provides a framework for collectively planning a unit of study in grades 3 5 Grade level teams will learn how to work together to perform key tasks from unwrapping standards and creating team unit calendars to determining academic vocabulary and designing robust fraction units Help your team identify what students need to know by the end of each unit and build student self efficacy Understand how to collaboratively plan thematic units in grades 3 5 Study the seven unit planning elements and learn how to incorporate each in essential unit design Review the role of the PLC at Work process in enhancing collaborative student learning and teacher collaboration Observe three model fraction units one for each grade level Receive tools and templates for effective unit planning Contents Introduction by

Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in Grades 3 5 Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Fraction Unit Examples Grades 3 5 Chapter 3 Grade 3 Unit Fraction Understanding Chapter 4 Grade 4 Unit Fraction Equivalence Addition and Subtraction Chapter 5 Grade 5 Unit Fraction Addition and Subtraction Epilogue Mathematics Team Organization Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning References and Resources

Math Instruction for Students with Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of *Math Instruction for Students with Learning Difficulties* presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

A Focus on Fractions Marjorie M. Petit, Robert E. Laird, Caroline B. Ebby, Edwin L. Marsden, 2022-07-29 The third edition of this book offers a unique approach to making mathematics education research on the teaching and learning of fraction concepts readily accessible and understandable to pre service and in service K 8 mathematics teachers Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of classroom teachers experience this book provides teachers a research based lens to interpret evidence of student thinking inform instruction and ultimately improve student learning Based on research gathered in the Ongoing Assessment Project OGAP and updated throughout this engaging and easy to use resource also features Two new chapters dedicated to understanding the OGAP Fraction Framework and Progression based on research conducted with hundreds of teachers to gather and interpret evidence of student learning along a learning progression referenced throughout the book so readers can apply the concepts to their instruction A close focus on student work including 180 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A discussion of decimal fractions also new to the third edition In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter Looking Back questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their own instructional materials and programs Accompanying online Support Material includes an answer key to Looking Back questions as well as a copy of the OGAP Fraction Framework and Progression A Focus on Fractions is part of the popular A

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understand evidence in student work and make effective instructional decisions **Math Instruction for Students with**

Learning Problems Susan Perry Gurganus,2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis **Maths Action Plans** David Clemson,Nelson,2003-06 Maths Action Plans is a series of four books for Years 4 6

P5 7 offering flexible supportive teacher and pupil resources and coherent coverage of the five strands of the Framework for Teaching Mathematics The series provides inspiring flexible activities that can be fitted into any maths scheme Each title contains clear learning objectives linked to the Framework for Teaching Maths the National Curriculum Programme of Study and the 5 14 National Guidelines for Mathematics lesson plans with up to three levels of differentiation supplementary activities for consolidation or linked work and suggestions for the application of ICT skills *Meaningful Small Groups in Math, Grades K-5* Kimberly Rimbey,2022-08-19 Written for teachers interventionists and instructional coaches this book provides much needed guidance on how to meet the diverse needs of students using small group math instruction

Common Core Mathematics in a PLC at Work®, Grades 3-5 Timothy D. Kanold,2012-04-12 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades 3 5 Discover what students should learn and how they should learn it at each grade level Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency *Developing Maths Lesson Planning and Frameworks: Mastery, Logic and Reasoning in the Classroom* Linda (Yuqian) Wang,Jeremy Dawson,Chris Brown,2023-11-24 This book highlights the essential relationship between lesson planning and key mathematical elements such as mastery and reasoning The exemplification of ideas through useful classroom strategies gives the book a practical basis as well as theoretical I have no doubt that even experienced teachers will find this book enlightening and encourage them to re evaluate elements of their practice Hayley Hands Secondary PGCE Mathematics Lead Newcastle University UK Developing Maths Lesson Planning and Frameworks provides much food for thought and includes many immediate take aways to reflect on or try out This book will help enhance any maths teacher s lesson planning from the trainee teacher to the experienced practitioner Rose Marie

Rochester Archimedes NE Maths Hub Lead BHCET Director of Maths UK Addressing the maths skills gap Wang et al propose a new method for maths lesson planning that harnesses the power of reasoning in mathematics teaching Using a pedagogical approach called the Causal Connectivity Framework CCF this book helps teachers to support students in actively discovering the logical foundations upon which classroom activities are linked together The authors have diverse expertise and experiences as maths teachers teacher educators and researchers and this alternative approach is the result of long term collaboration aimed at building up successful maths lessons from the very first steps lesson planning Developing Maths Lesson Planning and Frameworks Offers practical advice within a theoretical framework Ties in with UK National Curriculum requirements Contains detailed practical examples and visual aids throughout Reasoning is a critical component of maths learning making this essential reading for maths teachers and teacher trainees as they help students to achieve maths mastery Linda Wang is Assistant Professor and PGCE secondary maths Lead at Durham University UK She is particularly interested in curriculum design at both secondary and lower primary level mathematics and developing the educational impact partnership model to deliver Continuing Professional Development CPD to future orientate Mathematics education Chris Brown is Professor of Education at the University of Southampton UK His research interests include using Professional Learning Networks PLNs to promote the collaborative learning of teachers as well as how research evidence can and should but often doesn't aid the development of education policy and practice Jeremy Dawson is Area Coordinator for the Advanced Maths Support Programme at Durham University UK He has worked in a variety of diverse school settings around North East England and has extensive experience of teaching mathematics from KS2 KS5 as well as contributing and assisting on gifted and talented programs for prospective university entrants

Teaching Mathematics in the Visible Learning

Classroom, Grades 3-5 John Almarode, Douglas Fisher, Kateri Thunder, Sara Delano Moore, John Hattie, Nancy Frey, 2019-02-13 It could happen in the morning during homework review Or perhaps it happens when listening to students as they struggle through a challenging problem Or maybe even after class when planning a lesson At some point the question arises How do I influence students learning what's going to generate that light bulb aha moment of understanding In this sequel to the megawatt best seller Visible Learning for Mathematics John Almarode Douglas Fisher Nancy Frey John Hattie and Kateri Thunder help you answer that question by showing how Visible Learning strategies look in action in the mathematics classroom Walk in the shoes of elementary school teachers as they engage in the 200 micro decisions per minute needed to balance the strategies tasks and assessments seminal to high impact mathematics instruction Using grade leveled examples and a decision making matrix you'll learn to Articulate clear learning intentions and success criteria at surface deep and transfer levels Employ evidence to guide students along the path of becoming metacognitive and self directed mathematics achievers Use formative assessments to track what students understand what they don't and why Select the right task for the conceptual procedural or application emphasis you want ensuring the task is for the right phase

of learning Adjust the difficulty and complexity of any task to meet the needs of all learners It s not only what works but when Exemplary lessons video clips and online resources help you leverage the most effective teaching practices at the most effective time to meet the surface deep and transfer learning needs of every student Numeracy in Authentic Contexts Maura Sellars,2017-10-25 This book is based on the notion that there are many ways in which mathematics learning can be achieved for students and that not all of them are focused on the mathematics classroom It explores the foundational numeracy principles of the non mathematical subject areas and aligns these to the Australian numeracy learning continuum It demonstrates in detail the extent to which numeracy competencies underpin successful learning in all the subject areas of the curricula It validates a focus of developing numeracy competencies through learning in the arts science and other discipline areas with which school students to engage with in order develop holistically but which are not subjected to national assessment practices It is developed around the notion of praxis putting theory into practice in order to respond to the urgent need for students to be supported in their efforts to increase their numeracy capabilities in a world where extensive amounts of new information are often presented in graphical or data based formats Additionally it offers perspectives on developing all students capacities to become numerate in school contexts and presents inclusive differentiated lesson examples as an alternative way of exploring numeracy in the context of teaching and learning in real world classroom contexts *Lesson Plans Using Graphic Organizers* ,1999-08 **Teaching STEM and Common Core with Mentor Texts** Anastasia Suen,Shirley L. Duke,2013-12-02 Librarians can use this book to become leaders in their schools collaborating with teachers to keep them abreast of resources that will facilitate the inclusion of STEM in the curriculum Teaching STEM and Common Core with Mentor Text explains the basics of STEM Science Technology Engineering and Mathematics and shows how librarians can become a key component in STEM education guiding teachers and sparking interest though the books and technology inherent in their curriculum The volume offers 20 mentor texts plus in depth collaborative lesson plans linked to the Common Core Standards for K 5 librarians There are additional lessons for classroom teachers as well as activities that can easily be done in the library or classroom Each lesson includes mentor text information an overview of the lesson step by step lesson plans assessment options and extension activities By implementing these lessons in the library librarians will be able to cover multiple Common Core State Standards and science standards and at the same time establish the library as a resource for teaching STEM subjects *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 **Classroom-Ready Rich Math Tasks, Grades 2-3** Beth McCord Kobett,Francis (Skip) Fennell,Karen S. Karp,Desiree Harrison,Barbara Ann Swartz,2021-06-02 A book of 50 flexible easy to implement tested and proven supplemental rich math tasks with lesson plans and facilitation guidance for Grades 2 3 High Leverage Practices for Intensive Interventions James McLeskey,Lawrence Maheady,Bonnie Billingsley,Mary T. Brownell,Timothy J. Lewis,Sheila Alber-Morgan,2023-06-01 High Leverage Practices for Intensive Interventions provides special education teachers with descriptions and practical instructions on how to use High Leverage Practices HLPs to improve student outcomes Since many students with disabilities spend their school day in inclusive general education classrooms these intensive interventions are often delivered in separate or tier 3 settings to meet the students individualized needs Each chapter focuses on a specific High Leverage Practice with explanations of its purpose and essential components accompanied by examples for use with small groups of students or the individual student This accessible and comprehensive guide is key for pre service teachers in special education programs or those who provide intensive interventions with students

Teaching by Design in Elementary Mathematics, Grades 4-5 Melinda Leong,Jennifer Stepanek,Linda Griffin,2010-12 This professional learning programme for Key Stage 3 mathematics teaching is grounded in the latest research on the characteristics of effective professional development The materials help teachers deepen their content knowledge for important mathematical concepts in their grade increase their understanding of how students learn these mathematical ideas use their knowledge to develop effective lessons and improve instruction enhance their collaboration skills The mathematical content of Teaching by Design in Mathematics matches content topics in number and operations identified for each grade by the NCTM Curriculum Focal Points The culminating activity of the programme is the co creation of a prototype lesson which is taught to students by team members the team then investigates the impact of the lesson on student learning The cycle of investigating planning teaching observing debriefing and revising a lesson together contributes to a climate of continuous professional learning Lesson Study: Challenges In Mathematics Education Maitree Inprasitha,Masami Isoda,Patsy Wang-iverson,Ban Har Yeap,2015-03-25 Classroom Innovations through Lesson Study is an APEC EDNET Asia Pacific Economic Cooperation Education Network project that aims to improve the quality of education in the area of mathematics This book includes challenges of lesson study implementation from members of the APEC economies Lesson study is one of the best ways to improve the quality of teaching It is a model approach for improvement of teacher education across the globe This book focuses on mathematics education teacher education and curriculum implementation and reforms

Resources in Education ,1996 Helping Children Learn Mathematics Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,2014-10-20 The 11th Edition of Helping Children Learn Mathematics is designed to help those who

are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M

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