

Lesson 1.3 Addition Fact Strategies

Objective: How can we practice adding numbers by using counting on to add numbers in any order?

CC: 2 OA-B-3

Mathematical Practices: MP-2, MP-4, MP-7, MP-8

| Materials | | Assessments Used Throughout Lesson | Questions | | | | | | | | | | | | |
|--|--|---|-------------------------|--------|---------------|--------|--------|-----|------------|---------|---------------|--------------------|------------------------------|--|--|
| Envision Math Book: pg 5-10 Topic 1 Booklet Math Notebook Vocabulary: Equation, Addends, Sum | | Teacher observation Problem of Day Exit Problem Student Reflection | | | | | | | | | | | | | |
| 15 minutes | Daily Routine: Problem of the Day: Draw counters to add: $7 + 7 = \underline{\hspace{1cm}}$ I Do: Instruct students to use connecting cubes or draw the problem: $4 + 5 = \underline{\hspace{1cm}}$ Then, model for students how the reverse order of the addends does not change the sum. The addition facts $4 + 5 = 9$ and $5 + 4 = 9$ have the same part and whole. Changing the parts added does not change the whole. (Early finishers try $4 + 4 = 8$) Do over vocabulary | <p>What will happen to the total number of cubes if you change the order of the numbers being added? Explain.</p> <p>How can models help you solve this problem?</p> <p>Can you write another addition fact with 4, 5, and 9?</p> | | | | | | | | | | | | | |
| 15 minutes | We Do: Page 6: Look at the models: $6 + 3$ Model Thinking: You can start with 6 and count on 3. Since 6 is a greater number it is easier to count on 3 more (7, 8, 9). When you use a smaller number you need to count on more and can make mistakes. For example $3 + 6$ (4, 5, 6, 7, 8, 9) How are these two addition equations alike? $6 + 3$ and $3 + 6$ How are they different? How do you know that $3 + 6$ and $6 + 3$? Together as a class complete problems 1 and 2. Turn and Talk 1: If you add two numbers in a different order will you get the same sum? Turn and Talk 2: Create a QOE question about the order of addends. Ask your partner. | <p>Is counting on 3 cubes from 6 easier or harder than just counting all the cubes? (easier)</p> <p>Why is it easier to count on from a greater number, 6, than to count on from the lesser number, 3?</p> <p>How is $6 + 3$ the same as or equal to $3 + 6$? (When you add $6 + 3$, the value is 9, and 9 is equal to 9. Does $3 + 6$ also have the same value as 9?</p> | | | | | | | | | | | | | |
| 15 minutes | We Do: <table><thead><tr><th>Differentiated Group</th><th>Differentiated Activity</th></tr></thead><tbody><tr><td>Apples</td><td>Paragraph 1-1</td></tr><tr><td>Banana</td><td>Page 7</td></tr><tr><td>Car</td><td>Pages 7- 8</td></tr><tr><td>Mustard</td><td>Paragraph 1-1</td></tr><tr><td>Guided Group Level</td><td>Teacher Leading Guided Group</td></tr></tbody></table> | Differentiated Group | Differentiated Activity | Apples | Paragraph 1-1 | Banana | Page 7 | Car | Pages 7- 8 | Mustard | Paragraph 1-1 | Guided Group Level | Teacher Leading Guided Group | | |
| Differentiated Group | Differentiated Activity | | | | | | | | | | | | | | |
| Apples | Paragraph 1-1 | | | | | | | | | | | | | | |
| Banana | Page 7 | | | | | | | | | | | | | | |
| Car | Pages 7- 8 | | | | | | | | | | | | | | |
| Mustard | Paragraph 1-1 | | | | | | | | | | | | | | |
| Guided Group Level | Teacher Leading Guided Group | | | | | | | | | | | | | | |

Math Lesson Plans Envision Math

R Barnett



Math Lesson Plans Envision Math:

Teaching Mathematics Conceptually Beth L. MacDonald, Jonathan N. Thomas, 2023-04-08 This book expands upon the guiding principles at the heart of Math Recovery instruction exploring their connections with learning theory practical application in the classroom and their wider links to agreed concepts of high quality mathematics teaching It provides a well rounded overview of all major aspects of mathematics teaching including inquiry based and constructivist approaches planning and assessment and strategies that offer children opportunities for reflection satisfaction and increasing challenge Particular focus is placed on equitable and inclusive practices in mathematics and how we can develop teaching that connects with the abilities cultures and lived experiences of all children This is essential reading for all teachers familiar with the Math Recovery approach and classroom mathematics teachers in elementary and primary schools everywhere seeking to enhance their own professional knowledge and understanding Beth L MacDonald is an associate professor in Early Childhood Mathematics Education in the School of Teaching and Learning at Illinois State University Jonathan N Thomas is an associate professor of mathematics education and the chairperson of the Department of STEM Education at the University of Kentucky

Envision Math 2009 National Home School Bundle Kit Grade 1 , 2008-01-01 Engage Every Learner with enVisionMATH Grade 1 is the next step in advancing your child s math education At this stage you should be developing lesson plans that lay the foundation for your child s future learning and enVisionMATH Grade 1 will help you do so Filled with hands on activities interactive lesson ideas and visual aids this curriculum for homeschooling will keep your child interested as he or she learns Grade 1 picks up right where the Kindergarten material ends giving you and your child a seamless transition into the next phase of his or her education Your child will love the bright colors used in the enVisionMATH materials and you ll enjoy how comprehensive and supportive the system is In fact enVisionMATH Grade 1 comes with a workbook that includes engaging math activities a CD that provides game style math quizzes and a CD designed to help you the teacher With all these great materials you re sure to help your child achieve a strong math foundation by the completion of the 12 week series When your child finishes enVisionMATH Grade 1 he or she should be able to Count to 100 using intervals of one five and 10 Break up numbers using intervals i e 15 is equal to 10 plus 5 Add and subtract using numbers one through 20 Use objects and drawings to express math concepts such as addition and subtraction Recognize patterns and shapes Draw 2 D shapes Measure objects using units of measurement enVisionMATH Grade 1 is structured intelligently so your child feels like he or she is working on math and subject goals rather than tackling random questions Between the interactive problems the dynamic lessons you design using enVisionMATH and the colorful image guides your child is sure to develop a strong foundation in math For more information about the components included in enVisionMATH Grade 1 take a look at the Features and Benefits page

Who Are You Who Are So Wise in the Science of Teaching? Rex R. Schultze

J.D., 2021-02-10 Based upon years of reviewing the work product of building principal s evaluations of their teaching staff it

has been evident to me there is a clear need to improve this critical aspect of school administration This book is designed to provide building principals and assistant principals with guidance on 1 the necessary preparation of the principal to be effective at guiding and coaching their staff 2 the laying of the foundation for their teachers to know the standard of performance expected by the school district as whole and the specific building where they serve guide and teach their students 3 the teaching of their instructional staff what constitutes good lesson planning and instruction as defined by the educational model adopted by the school and art of teaching under that model 4 developing the skills for the writing of effective teacher formative and summative evaluations to assist in the improvement of instruction and 5 the work required in 1 to 4 above to establish and qualify the principal as an expert witness under the Rules of Evidence if he she is called upon to participate in the end game of moving an underperforming teacher along The book is designed as a step by step process with reading assignments and self instruction tasks at the end of each chapter applying the concepts teaching supporting and assisting teachers in the science of teaching needed to develop maintain and excel at their craft It is shown scientifically that where teachers know the district s standards of performance student learning improves and students learn how to learn essential in today s ever changing society Being an effective building principal thus requires you to be an expert in your field i e that person who is rhetorically asked Who are you who are so wise in the science of teaching About the Author As you will surmise quickly in reading this book Rex Schultze has had the fortunate circumstance of being immersed in public education for his entire life from 1951 to the present as a teacher s and administrator s kid as a high school teacher for four years as the brother of an elementary school teacher and administrator and as a lawyer with a 40 year practice focused on public education both K 12 and community college levels As such he brings to you in Who are you who are so wise in the science of teaching a lifetime of perspective on the value of an education and particularly public education the most important equalizer of the citizens of our country and the need to grow support and nurture the best teachers possible Rex is a Boomer as in Baby Boomer OK Boomer an early version of that generation that grew up in the 50 s and 60 s so you will find references to the movies and music of those days throughout the book to add perspective and some fun Apologies in advance for the succeeding generations you can google the references a contribution by Rex to your personal history journey Extreme Teaching Keen Babbage,2014-10-08 Extreme Teaching Second Edition continues the important events in the career of Jason Prather an outstanding teacher who became an exemplary school administrator This book emphasizes Jason s transition from teacher to school administrator as he promises himself that he will do the work of a school administrator with the same heart and soul which inspired him as a teacher Through this narrative this book confronts many current issues in education The reader meets some of Jason s colleagues and hears their concerns ideas hopes and frustrations Extreme Teaching is a practical realistic energetic and optimistic book filled with ideas case studies penetrating questions intriguing answers and many topics for the reader to analyze This book provides intellectual resources for readers to create new ideas which will

work for their specific needs challenges and opportunities

Envision Math 2009 National Home School Bundle Kit

Grade K, 2008-01-01 Engage Every Learner with enVisionMATH Getting your child excited about mathematics can be a challenge However if you select a curriculum for homeschooling that focuses on using hands on activities and visual aids you ll have the tools you need to help your child grow in the subject enVisionMATH is the perfect system to meet that goal This homeschool curriculum bundle is designed using Grade appropriate content that s meant to keep your child engaged and cater to his or her learning style Using diagrams and other visual aids enVisionMATH will enhance your child s problem solving skills while teaching him or her important math concepts Of course all that will occur as your child progresses through the various levels of enVisionMATH First your child must tackle the kindergarten content At this age he or she will need to build a foundation in mathematics learning very basic skills such as adding and subtracting The enVisionMATH Kindergarten curriculum for homeschooling will help you create lesson plans that are rooted in interaction keeping your child focused on math learning enVisionMATH Kindergarten is comprised of content that promotes conceptual understanding and problem solving The visual aids used in enVisionMATH Kindergarten are geared toward solidifying your child s knowledge of basic math concepts while teaching him or her how to solve problems Lesson units all center on a topic allowing your child to zero in on a single idea at a time and master it before moving on to the next math concept Your child will have worksheets and activities to complete every day to help him or her develop a strong math foundation The enVisionMATH Kindergarten set includes exercises for your child to complete as well as quizzes presented in a game show format sure to keep your child interested This fun and additional math content not only creates an opportunity for practice but helps your child get excited about the subject For more information about the details of enVisionMATH Kindergarten s design take a look at the Features and Benefits page

What Counts in Teaching Mathematics Sandy Schuck, Peter Pereira, 2011-02-04 In this book internationally recognised scholars and practitioners synthesise current practice and research developments in the area of mathematics teacher education and mathematics education The book s two sections examine the role and significance of collaborations and critical friends in the self study of mathematics teaching and teacher education and the emerging conflicts dilemmas and incongruities arising from the study of mathematics education practices The book considers the insights gained from self analysis regarding the practitioner themselves as well as their pedagogical content students and approaches The contributions highlight the complexity characteristics and features of mathematics education The chapters reveal nuances in teaching and learning that are of particular relevance in mathematics education In addition the book contains ideas and suggestions on how to enhance the teaching of mathematical content to pre service teachers Accordingly the book appeals to a wide audience of educators including education academics teachers student teachers and researchers As teacher educators involved in mathematics education reflection on practice and engagement in practitioner research is becoming increasingly important in our efforts to enhance our teaching Teachers and student teachers also gain from the

insights arising from such reflection The knowledge and experience encapsulated in this book provides much for the mathematics education community to build on Upper Elementary Mathematics Lessons to Explore, Understand, and Respond to Social Injustice Tonya Gau Bartell, Cathery Yeh, Mathew D. Felton-Koestler, Robert Q. Berry III, 2022-07-20 A very compelling set of fresh ideas are offered that prepare educators to turn the corner on advocating for social justice in the mathematics classroom Each book is full of engaging activities frameworks and standards that centers instruction on community worldview and the developmental needs of all students a must needed resource to reboot our commitment to the next generation Linda M Fulmore TODOS Mathematics For ALL Cave Creek AZ Empower students to be the change join the teaching mathematics for social justice movement We live in an era in which students of all ages have through media and their lived experiences a more visceral experience of social injustices However when people think of social justice mathematics rarely comes to mind With a teacher friendly design this book brings upper elementary mathematics content to life by connecting it to student curiosity empathy and issues students see or experience Tested in Grades 3 5 classrooms the model lessons in this book walk teachers through the process of applying critical frameworks to instruction using standards based mathematics to explore understand and respond to social justice issues Learn to plan instruction that engages students in mathematics explorations through age appropriate culturally relevant topics such as valuing differences health and pay inequality bullying voting rights and environmental justice Features include Content cross referenced by mathematical concept and social issues Connection to Learning for Justice s social justice standards Downloadable instructional materials and lesson resources Guidance for lessons driven by students unique passions and challenges Connections between research and practice Written for teachers committed to developing equitable and just practices through the lens of mathematics content and practice standards as well as social justice standards this book will help connect content to students daily lives fortify their mathematical understanding and expose them to issues that will support them in becoming active citizens and leaders *Transforming Mathematics Teacher Education* Tonya Gau Bartell, Corey Drake, Amy Roth McDuffie, Julia M. Aguirre, Erin E. Turner, Mary Q. Foote, 2019-08-01 This book builds on the Teachers Empowered to Advance Change in Mathematics TEACH Math project which was an initiative that sought to develop a new generation of preK 8 mathematics teachers to connect mathematics children s mathematical thinking and community and family knowledge in mathematics instruction or what we have come to call children s multiple mathematical knowledge bases in mathematics instruction with an explicit focus on equity Much of the work involved in the TEACH Math project included the development of three instructional modules for preK 8 mathematics methods courses to support the project s goals These activities were used and refined over eight semesters and in Fall 2014 shared at a dissemination conference with other mathematics teacher educators from a variety of universities across the United States Chapter contributions represent diverse program and geographical contexts and teach prospective and practicing teachers from a variety of socioeconomic and ethnic

backgrounds in particular providing accounts of supports challenges and tensions in implementing equity based mathematics teacher education The chapters supply rich evidence and illustrative examples of how other mathematics teacher educators and professional developers might make the modules work for their unique practices courses workshops and prospective teachers teachers It promises to be an important resource for offering guidance and examples to those working with prospective teachers of mathematics who want to create positive culturally responsive and equity based mathematics experiences for our nation s youth

Teaching and Learning Mathematics Linda Jensen Sheffield,Douglas E.

Cruikshank,2004-03-29 Help students make sense of mathematics Rather than merely discussing how to improve students ability to do mathematics this fifth edition focuses on helping them make sense of mathematics Based on research on the functioning of the mind as it engages in learning the text supports teachers as they promote mathematical understanding strengthen students abilities to think and help students to attain computational fluency Features A rich collection of ready to use learning activities Fully integrated language and intent of Principles and Standards for School Mathematics PSSM A greater emphasis on problem solving and higher level thinking A greater focus on teaching mathematics to diverse learners Descriptions of a variety of promising and effective mathematics programs for the K 8 levels

Improving Working Memory in Learning and Intellectual Disabilities Silvia Lanfranchi,Barbara Carretti,2016-08-05 The last forty years of research have demonstrated that working memory WM is a key concept for understanding higher order cognition To give an example WM is involved in reading comprehension problem solving and reasoning but also in a number of everyday life activities It has a clear role in the case of atypical development too For instance numerous studies have shown an impairment in WM in individuals with learning disabilities LD or intellectual disabilities ID and several researchers have hypothesized that this can be linked to their difficulties in learning cognition and everyday life The latest challenge in the field concerns the trainability of WM If it is a construct central to our understanding of cognition in typical and atypical development then specific intervention to sustain WM performance might also promote changes in cognitive processes associated with WM The idea that WM can be modified is debated however partly because of the theoretical implications of this view and partly due to the generally contradictory results obtained so far In fact most studies converge in demonstrating specific effects of WM training i e improvements in the trained tasks but few transfer effects to allied cognitive processes are generally reported It is worth noting that any maintenance effects when investigated are even more meagre In addition a number of methodological concerns have been raised in relation to the use of 1 single tasks to assess the effects of a training program 2 WM tasks differing from those used in the training to assess the effects of WM training and 3 passive control groups These and other crucial issues have so far prevented any conclusions from being drawn on the efficacy of WM training Bearing in mind that the opportunity to train WM could have a huge impact in the educational and clinical settings it seems fundamentally important to shed more light on the limits and potential of this line of research The aim of the research discussed here is to

generate new evidence on the feasibility of training WM in individuals with LD and ID There are several questions that could be raised in this field For a start can WM be trained in this population Are there some aspects of WM that can be trained more easily than others Can a WM training reduce the impact of LD and ID on learning outcomes and on everyday living What kind of training program is best suited to the promotion of such changes

Envision Math 2009 National Home School Bundle Kit Grade 6, 2008-01-01 The final installment of enVisionMATH Grade 6 ensures that your child has a solid understanding of fundamental math concepts This curriculum for homeschooling features a host of math activities that provide hands on education for your child Furthermore the materials use pictures and graphs to cater to visual learning styles Whether your child likes to try math problems to better grasp the concepts you teach or use visual aids enVisionMATH will help him or her excel When you select enVisionMATH Grade 6 you ll get all the tools you need to create dynamic and interesting lesson plans This program is organized by math concept Over time your child will learn to Understand the concept of ratios Multiply and divide using fractions Apply prior math knowledge to rational and irrational numbers Solve algebraic equations that use a single variable Differentiate between dependent and independent variables Solve area equations for 3 D shapes Understand and use absolute value Use graphs to explain distribution Comprehend and use median mode range minimum maximum and mean enVisionMATH Grade 6 will also further develop your child s problem solving skills and improve his or her quantitative and abstract thinking abilities The information and skills your child gleans from this curriculum and the lessons you teach with it will help him or her in other subject areas as well The Grade 6 curriculum transitions smoothly from Grade 5 ensuring your child is ready to move to the next math level Independent scientific research has proven that the enVisionMATH series is successful in teaching math education When you use this set you know you ll be helping your child achieve his or her learning goals For more information on the specific materials included in enVisionMATH Grade 6 visit the Features and Benefits page

Understanding the Math You Teach Anita C. Burris, 2005 Teaching strategies are grounded in the NCTM standards and illustrated with real student work In addition the author provides a full range of concrete developmental activities that encourage future teachers to make math make sense for themselves as well as for their students Believing that teachers who are comfortable with mathematics develop learners who are comfortable with mathematics this author empowers preservice preK 4 teachers to teach math confidently by laying a solid foundation of math concepts and building on that foundation with engaging meaningful standards based teaching methods Integrated in this unique combined approach to teaching mathematics is a thorough discussion of math manipulatives as well as the use of technology computer and otherwise to assist today s mathematics teacher For educators aids and parents responsible for teaching Pre K to fourth grade math

Mathematics Methods for Elementary and Middle School Teachers Mary M. Hatfield, 2004-04-29 An activity based approach to teaching with an emphasis on using manipulatives to build conceptual understanding This invaluable book combines practical teaching ideas video examples

updated assessment techniques and the NCTM Assessment Standards to give teachers all the background they need to introduce elementary and middle school students to the wonders of mathematics

Teaching the Emotionally Disturbed/learning Disabled Child: Assessment for instruction Rosa P. Hayes, Merice G. Stevenson, 1980

The Journal of Computers in Mathematics and Science Teaching, 1994

Math Lesson Plans, ForLessonPlans.com offers a collection of lesson plans related to mathematics. The lessons are arranged by grade level. The collection includes lessons appropriate for use with 2nd-7th grade students.

Creating and Studying a Practice of Teaching Elementary Mathematics for Understanding Ruth M. Heaton, 1994

A Case Study of the Effect of an Innovative Approach in a College General Education Mathematics Course Rose Ann Schwartzfisher, 1973

Envision Math 2009 National Home School Bundle Kit Grade 2, 2008-01-01

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- Differentiate between odd and even numbers
- Read, write, and count numbers up to 1,000
- Count to 1,000 using intervals of one, five, and 10
- Mentally subtract and add numbers between one and 20
- Add numbers to themselves (e.g., 10 + 10 = 20)
- Moving toward an understanding of multiplication
- Recognize and name different shapes
- Create pictures and graphs to explain simple data
- Estimate the length of an object

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Classroom Connect Newsletter, 2000

Adopting the Melody of Expression: An Emotional Symphony within **Math Lesson Plans Envision Math**

In a world taken by monitors and the ceaseless chatter of immediate connection, the melodic beauty and psychological symphony created by the written word usually disappear into the backdrop, eclipsed by the relentless sound and distractions that permeate our lives. Nevertheless, located within the pages of **Math Lesson Plans Envision Math** a stunning fictional value filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that interesting masterpiece conducts viewers on an emotional journey, well unraveling the concealed tunes and profound influence resonating within each cautiously crafted phrase. Within the depths with this moving assessment, we will explore the book is central harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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