

Middle Level Lesson Plan for Math class – Secondary Education, Mathematics

Teacher(s): M'Call Schaefer	Subject/Grade Level: Math 7 th Grade Intervention	Topic/Unit of Study: Quadrants/Reflection
<p>Objectives:(What will students know and be able to do at the end of this lesson?) Students will be able to place points in all 4 quadrants of a graph. Students will be able to identify and graph different shapes representing reflections along the x and y-axis.</p>		
<p>TEKS (Content): 7.7 locate and name points on a coordinate plane using ordered pairs of integers 7.7B graph reflections across the horizontal or vertical axis and graph translations on a coordinate plane TAC (Technology Content): 126.15 4C collect and analyze data to identify solutions and make informed decisions</p>		<p>Academic Vocabulary:(What terms are fundamental for understanding this lesson? How will you introduce them?) Quadrant - review activities on the smart board X and y axis - review activities on the smart board Reflection - provide examples of step by step modeling on the smart board and have the students interact</p>
<p>Assessment/Rubrics:(Must relate to lesson objective. What will students do to demonstrate what they have learned? How will you know students have achieved the stated objective?) Students will prove their understanding by working with their group to place the reflected shapes in the appropriate spot on the graph posters. The students will have to explain to me why they placed the new shape in each quadrant.</p>		
<p>Opening:(state objectives, connect to previous learning, and make relevant to real life). I will have a slide on the smartboard that shows the objectives before I begin. I will review the 4 quadrants of a graph by using the "C" on the smart board along with how to graph a point. I will have the students walk up to the board and drag the points into the appropriate quadrant. I will then lead into the reflection part of the lesson by using the Frayer model</p>		
<p>Instructional Input Teacher Modeling/ Input (What will you say/do to show students what is expected?)</p>	<p>Teacher will: I will review quadrants of a graph on the smart board while asking the students review questions such as "Which quadrant does (8,3) belong to?" I will have the students come up to the smart board and drag different points into the correct quadrant. I will base my pace throughout the lesson according to the student's responses. I will show the Frayer model on the smart board to introduce and describe reflections on a graph. I will ask the students to tell me which ones are examples of a reflection and which ones are not. I will then demonstrate how shapes can be reflected along both the x and y-axis by providing step-by-step instructions while modeling 2 examples. This will show the newly reflected shapes.</p>	<p>Student will: The students will provide responses to my review questions about quadrants. They will provide answers such as "Quadrant 1, Quadrant 4." Then they will come forward to the smart board and drag coordinate points to the appropriate quadrant. During the Frayer model, the students will tell me, which of the following are examples of a reflection and which ones are not.</p>
	<p>Co-Teaching Strategy/Differentiation (Identify which co-teaching model, if any, will be used. How will you differentiate the instruction for students who have special needs? How will you help these students meet or exceed the standards?) I will keep the students highly involved by calling on different people to come up to the board and drag different coordinate points into the appropriate quadrant. If I see the students struggling I will better explain the concept. I will ask Mr. Villarreal if there is</p>	

Fluency Lesson Plans Math

**Beth McCord Kobett, Ruth Harbin
Miles, Lois A. Williams**

Fluency Lesson Plans Math:

The Mathematics Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 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 Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students

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 will 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 will feel confident structuring lessons that lead to high student achievement *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 **Figuring Out Fluency in Mathematics Teaching and Learning, Grades**

K-8 Jennifer M. Bay-Williams, John J. SanGiovanni, 2021-03-02 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms Real fluency involves reasoning and creativity and it varies by the situation at hand Figuring Out Fluency in Mathematics Teaching and Learning offers educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach In a friendly and accessible style this hands on guide empowers educators to support students in acquiring the repertoire of reasoning strategies necessary to becoming versatile and nimble mathematical thinkers It includes Seven Significant Strategies to teach to students as they work toward procedural fluency Activities fluency routines and games that encourage learning the efficiency flexibility and accuracy essential to real fluency Reflection questions connections to mathematical standards and techniques for assessing all components of fluency Suggestions for engaging families in understanding and supporting fluency Fluency is more than a toolbox of strategies to choose from it s also a matter of equity and access for all learners Give your students the knowledge and power to become confident mathematical thinkers *Fluency Doesn't Just Happen with Addition and Subtraction* Nicki Newton, Ann Elise Record, Alison J. Mello, 2019-10-28 Fluency in math doesn t just happen It is a well planned journey In this book you ll find practical strategies and activities for teaching your elementary students basic addition and subtraction facts The authors lay out the basic framework for building math fluency using a cycle of engagement concrete pictorial abstract and provide a multitude of examples illustrating the strategies in action You ll learn how to help students to model their thinking with a variety of tools keep students engaged through games poems songs and technology assess student development to facilitate active and continuous learning implement distributed practices throughout the year boost parental involvement so that students remain encouraged even as material becomes more complex A final chapter devoted to action plans will help you put these strategies into practice in your classroom right away Most importantly you ll open the door to deep and lasting math fluency

Mathematics Teaching in the Middle School, 2009-08 *Teaching Mathematics to All Children* Benny F. Tucker, Ann H. Singleton, Terry L. Weaver, 2006 With the composition of today s classroom in mind this book approaches teaching and planning elementary mathematics by using methods that accommodate the diverse learning needs of any student having difficulties with basic math concepts The authors use personal experience and research that supports a complete set of developmental concepts and skills to outline the effective development of mathematical concepts and skills It stresses lesson planning that will result in learning understanding and retaining important concepts and skills K 12 Special Education and General Education Teachers **Figuring Out Fluency - Addition and Subtraction with Whole Numbers** John J. Sangiovanni, Jennifer M. Bay-Williams, Rosalba Serrano, 2021-08-24 Because fluency practice is not a worksheet The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency

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Teaching Students with Learning Problems Cecil D. Mercer, Ann R. Mercer, 2005 For courses in teaching students with mild disabilities and students at risk for school failure Also for courses in teaching students with disabilities in inclusive and Special Education settings This top selling practical research based text contains the resources teachers need to make informed decisions concerning their students with learning or behavior problems making it the most useful methods text on the market Prided for its unique and comprehensive coverage of classroom assessment and methods for the content areas it assists teachers in finding effective practices to facilitate instruction of students with learning problems

Figuring Out Fluency - Addition and Subtraction With Whole Numbers John J. SanGiovanni, Jennifer M. Bay-Williams, Rosalba Serrano, 2021-07-27 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book *Figuring Out Fluency in Mathematics Teaching and Learning* offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion *Figuring Out Fluency Addition and Subtraction with Whole Numbers* With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy aligned and classroom ready activities for fluency instruction and practice in adding and subtracting multi digit whole numbers including worked examples routines games and centers Find activities for assessing all components of addition and subtraction fluency plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become skilled and confident mathematical thinkers and doers

Figuring Out Fluency - Multiplication and Division with Whole Numbers John J. Sangiovanni, Jennifer M. Bay-Williams, Rosalba Serrano, 2021-08-17 Because fluency practice is not a worksheet The landmark book *Figuring Out Fluency in Mathematics Teaching and Learning* offered educators the

inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency Multiplication and Division with Whole Numbers With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy aligned and classroom ready activities for fluency instruction and practice in multiplying and dividing multi digit whole numbers including worked examples routines games and centers Find activities for assessing all components of multiplication and division fluency plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation

Classroom-Ready Number Talks for Sixth, Seventh, and Eighth Grade Teachers Nancy Hughes,2020-03-31 Make math class fun with this big book of number talk strategies designed to teach middle school students the mental math problem solving skills they need to meet common core standards and become successful mathematical thinkers Bringing the exciting teaching method of number talks into your classroom has never been easier Simply choose from the hundreds of great ideas in this book and get going with no extra time wasted From activities on multiplication and division to decimals and integers Classroom Ready Number Talks for Sixth Seventh and Eighth Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding Reduce time spent lesson planning and preparing materials and enjoy more time engaging your students in learning important math concepts These ready to use number talks are sure to foster a fresh and exciting learning environment in your classroom

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multiplication and division fluency plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become skilled and confident mathematical thinkers and doers [Figuring Out Fluency - Addition and Subtraction With Fractions and Decimals](#) Jennifer M. Bay-Williams, John J. SanGiovanni, Sherri Martinie, Jennifer Suh, 2021-12-19 Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book *Figuring Out Fluency in Mathematics Teaching and Learning* offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion *Figuring Out Fluency Addition and Subtraction with Fractions and Decimals* With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn Access over 100 strategy aligned and classroom ready activities for fluency instruction and practice in adding and subtracting fractions and decimals including worked examples routines games and centers Find activities for assessing all components of addition and subtraction fluency for fractions and decimals plus support for engaging families Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become skilled and confident mathematical thinkers and doers *Developing and Presenting a Professional Portfolio in Early Childhood Education* Nancy W. Wiltz, 2008 It demonstrates how to collect items for a professional Early Childhood Education portfolio and how to create compile them in a professional manner in a binder for presentation upon graduation to obtain employment As portfolios are sometimes started in Intro to ECE and compiled throughout the program or introduced in a Curriculum course or in a Student Teaching or capstone course there are several points of entry for this supplement Wiltz instructs the student what items to collect for the portfolio how to compile construct label it and then how to talk about it present it [Lesson Plans & Assessments for the California Writing Standards](#), 1999 [Daily Planning for Today's Classroom](#) Kay M. Price, Karna L. Nelson, 1999 This book has practical lesson and activity plans for pre service and in service teachers Its practical materials integrate all the theories students have already learned through their other coursework and pulls it together in a way that is useful in the classroom setting This book equips the student with materials organization and plans to walk into a classroom prepared **Differentiated Math** Donna VanderWeide, 2008 You know what an impact differentiation can have on your language arts instruction Now Donna VanderWeide shows how to apply those same principles to math class This book is packed with songs games literature connections and so much more Donna

offers a training camp for graphs and glyphs task cards to give students choices and loads of reproducibles to simplify preparation planning and assessment Math class has never been more engaging **El-Hi Textbooks and Serials in Print, 1996** R R Bowker Publishing, Bowker, 1996-02 *A Summary of Research in Science Education*, 1974

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