

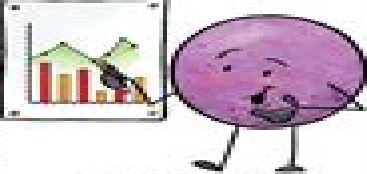

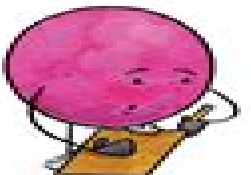


# HOW TO CREATE AN ENGAGING 5E MODEL MATH LESSON

Phase	Description	Activity Ideas
 <b>ENGAGE</b>	<ul style="list-style-type: none"> <li>Capture students' interest</li> <li>Encourage questions and critical thinking about the concept/skill after the engagement</li> <li>Uncover prior knowledge</li> <li>Set the stage for new learning</li> </ul>	<ol style="list-style-type: none"> <li>1. Short Game</li> <li>2. Picture Book</li> <li>3. Video Clip "Hook"</li> <li>4. Real-World Problem</li> <li>5. Connection to Previous Concept</li> </ol>
 <b>EXPLORE</b>	<ul style="list-style-type: none"> <li>Utilize a hands-on/minds-on activity to encourage investigation and inquiry</li> <li>Facilitate discussions as students work together while watching and listening to the students' interactions</li> </ul>	<ol style="list-style-type: none"> <li>1. Cooperative Learning Task</li> <li>2. Hands-on Learning Task using Manipulatives</li> <li>3. Investigation</li> </ol>
 <b>EXPLAIN</b>	<ul style="list-style-type: none"> <li>Explain and justify explore activity's discoveries or solutions (teacher or student)</li> <li>Introduce important terms and vocabulary</li> <li>Use varied questions and/or techniques to help students connect their exploration to the concept</li> </ul>	<ol style="list-style-type: none"> <li>1. Vocabulary Organizer</li> <li>2. Notes (teacher- or student-created)</li> <li>3. Foldables (teacher- or student-created)</li> <li>4. Explanatory Videos</li> </ol>
 <b>ELABORATE</b>	<ul style="list-style-type: none"> <li>Help students extend their understanding of the concept to new situations</li> <li>Incorporate use of important terms and vocabulary</li> <li>Apply knowledge to everyday lives</li> <li>Collaborate with others to connect new learning to prior knowledge/understanding</li> <li>Expand thinking</li> </ul>	<ol style="list-style-type: none"> <li>1. Problem Solving Task</li> <li>2. Group Investigation</li> <li>3. Real-World Task</li> <li>4. Independent Practice (not a basic worksheet)</li> <li>5. Game</li> <li>6. Stations Designed to Practice the Skill/Concept in a Variety of Ways</li> </ol>
 <b>EVALUATE</b>	<ul style="list-style-type: none"> <li>Demonstrate mastery, or progress towards mastery, either formally or informally of lesson objective(s)</li> <li>Discuss related questions</li> <li>Assess student progress through observations</li> <li>Determine next steps for instruction</li> </ul>	<ol style="list-style-type: none"> <li>1. Journal Task</li> <li>2. Traditional Worksheet</li> <li>3. Quiz</li> <li>4. Exit Ticket</li> <li>5. Problem Solving Task</li> <li>6. Observations and Anecdotal Notes</li> <li>7. Performance Task</li> </ol>

# Mathematics Unit Lesson Math Models

**Jicheng Xie**



## **Mathematics Unit Lesson Math Models:**

Exploring Mathematical Modeling with Young Learners Jennifer M. Suh, Megan H. Wickstrom, Lyn D. English, 2021-06-01 This book conceptualizes the nature of mathematical modeling in the early grades from both teaching and learning perspectives Mathematical modeling provides a unique opportunity to engage elementary students in the creative process of mathematizing their world A diverse community of internationally known researchers and practitioners share studies that advance the field with respect to the following themes The Nature of Mathematical Modeling in the Early Grades Content Knowledge and Pedagogy for Mathematical Modeling Student Experiences as Modelers Teacher Education and Professional Development in Modeling Experts in the field provide commentaries that extend and connect ideas presented across chapters This book is an invaluable resource in illustrating what all young children can achieve with mathematical modeling and how we can support teachers and families in this important work

Learning How to Teach Mathematical Modeling in School and Teacher Education Rita Borromeo Ferri, 2017-11-26 This timely resource fills a gap in existing literature on mathematical modeling by presenting both theory and evidence based ideas for its teaching and learning The book outlines four key professional competencies that must be developed in order to effectively and appropriately teach mathematical modeling and in so doing it seeks to reduce the discrepancies between educational policy and educational research versus everyday teaching practice Among the key competencies covered are Theoretical competency for practical work Task competency for instructional flexibility Instructional competency for effective and quality lessons Diagnostic competency for assessment and grading Learning How to Teach Mathematical Modeling in School and Teacher Education is relevant to practicing and future mathematics teachers at all levels as well as teacher educators mathematics education researchers and undergraduate and graduate mathematics students interested in research based methods for teaching mathematical modeling

**The Wiley Handbook of Problem-Based Learning** Mahnaz Moallem, Woei Hung, Nada Dabbagh, 2019-01-30 The first book to offer an in depth exploration of the topic of problem based learning with contributions from international experts The Wiley Handbook of Problem Based Learning is the first book of its kind to present a collection of original essays that integrate the research and practice of problem based learning in one comprehensive volume With contributions from an international panel of leading scholars researchers practitioners and educational and training communities the handbook is an authoritative definitive and contemporary volume that clearly demonstrates the impact and scope of research based practice in problem based learning PBL After many years of its successful implementation in medical education curricula problem based learning is now being emphasized and practiced more widely in K 12 higher education and other professional fields The handbook provides timely and stimulating advice and reflection on the theory research and practice of PBL Throughout the book the contributors address the skills needed to implement PBL in the classroom and the need for creating learning environments that are active collaborative experiential motivating and engaging This important resource Addresses the need

for a comprehensive resource to problem based learning research and implementation Contains contributions from an international panel of experts on the topic Offers a rich collection of scholarly writings that challenge readers to refresh their knowledge and rethink their assumptions Takes an inclusive approach that addresses the theory design and practice of problem based learning Includes guidelines for instructional designers and implementation and assessment strategies for practitioners Written for academics students and practitioners in education The Wiley Handbook of Problem Based Learning offers a key resource to the most recent information on the research and practice of problem based learning Modeling Students' Mathematical Modeling Competencies Richard Lesh, Peter L. Galbraith, Christopher R. Haines, Andrew

Hurford, 2013-03-17 Modeling Students Mathematical Modeling Competencies offers welcome clarity and focus to the international research and professional community in mathematics science and engineering education as well as those involved in the sciences of teaching and learning these subjects **Modeling Mathematical Ideas** Jennifer M.

Suh, Padmanabhan Seshaiyer, 2016-12-27 Modeling Mathematical Ideas combining current research and practical strategies to build teachers and students strategic competence in problem solving This must have book supports teachers in understanding learning progressions that addresses conceptual guiding posts as well as students common misconceptions in investigating and discussing important mathematical ideas related to number sense computational fluency algebraic thinking and proportional reasoning In each chapter the authors opens with a rich real world mathematical problem and presents classroom strategies such as visible thinking strategies technology integration and other related problems to develop students strategic competence in modeling mathematical ideas *Parallel Curriculum Units for Mathematics, Grades 6-12*

Jann H. Leppien, Jeanne H. Purcell, 2011-04-07 Maximize your mathematics curriculum to challenge all students This collection of lessons from experienced teachers provides multifaceted examples of rigorous learning opportunities for mathematics students in Grades 6-12 The four sample units focus on fractions linear programming geometry and quadratic relationships The authors provide user friendly methods for instruction and demonstrate how to differentiate the lessons for the benefit of all students Included are standards based strategies that guide students through Understanding secondary mathematics concepts Discovering connections between mathematics and other subjects Developing critical thinking skills Connecting mathematics learning to society through the study of real world data proportional reasoning and problem solving

**Exploring Mathematical Modeling in Biology Through Case Studies and Experimental Activities** Rebecca Sanft, Anne Walter, 2020-04-01 Exploring Mathematical Modeling in Biology through Case Studies and Experimental Activities provides supporting materials for courses taken by students majoring in mathematics computer science or in the life sciences The book's cases and lab exercises focus on hypothesis testing and model development in the context of real data The supporting mathematical coding and biological background permit readers to explore a problem understand assumptions and the meaning of their results The experiential components provide hands on learning both in the lab and on the computer As a

beginning text in modeling readers will learn to value the approach and apply competencies in other settings Included case studies focus on building a model to solve a particular biological problem from concept and translation into a mathematical form to validating the parameters testing the quality of the model and finally interpreting the outcome in biological terms The book also shows how particular mathematical approaches are adapted to a variety of problems at multiple biological scales Finally the labs bring the biological problems and the practical issues of collecting data to actually test the model and or adapting the mathematics to the data that can be collected

*Big Ideas In Mathematics: Yearbook 2019, Association Of Mathematics Educators* Tin Lam Toh, Joseph B W Yeo, 2019-05-21 The new emphasis in the Singapore mathematics education is on Big Ideas Charles 2005 This book contains more than 15 chapters from various experts on mathematics education that describe various aspects of Big Ideas from theory to practice It contains chapters that discuss the historical development of mathematical concepts specific mathematical concepts in relation to Big Ideas in mathematics the spirit of Big Ideas in mathematics and its enactment in the mathematics classroom This book presents a wide spectrum of issues related to Big Ideas in mathematics education On the one end we have topics that are mathematics content related those that discuss the underlying principles of Big Ideas and others that deepen the readers knowledge in this area and on the other hand there are practice oriented papers in preparing practitioners to have a clearer picture of classroom enactment related to an emphasis on Big Ideas

**Lesson Imaging in Math and Science** Michelle Stephan, David Pugalee, Julie Cline, Chris Cline, 2016-10-26 From respected voices in STEM education comes an innovative lesson planning approach to help turn students into problem solvers lesson imaging In this approach teachers anticipate how chosen activities will unfold in real time what solutions questions and misconceptions students might have and how teachers can promote deeper reasoning When lesson imaging occurs before instruction students achieve lesson objectives more naturally and powerfully A successful STEM unit attends to activities questions technology and passions It also entails a careful detailed image of how each activity will play out in the classroom Lesson Imaging in Math and Science presents teachers with A process of thinking through the structure and implementation of a lesson A pathway to discovering ways to elicit student thinking and foster collaboration An opportunity to become adept at techniques to avoid shutting down the discussion either by prematurely giving or acknowledging the right answer or by casting aside a wrong answer Packed with classroom examples lesson imaging templates and tips on how to start the process this book is sure to help teachers anticipate students ideas and questions and stimulate deeper learning in science math engineering and technology

Effective Math Instruction Jared Dupree, 2016-02-01 This easy to use classroom resource provides a series of lessons templates and exemplars for practical classroom application and will help teachers understand the content standards and the mathematical practice standards in order to develop meaningful mathematics lessons This book primarily focuses on teachers procedural knowledge of standards implementation as they apply the information and resources presented in this book Mathematical rigor in the classroom for students includes lessons that

target conceptual knowledge procedural knowledge factual knowledge meta cognitive knowledge and the application of this knowledge in context It also includes opportunities for teachers to develop all three dimensions of rigor as it applies to the Common Core

**Eureka Math Grade 1 Study Guide** Great Minds,2015-09-18 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 1 provides an overview of all of the Grade 1 modules including Sums and Differences to 10 Introduction to Place Value Through Addition and Subtraction Within 20 Ordering and Comparing Length Measurements as Numbers Place Value Comparison Addition and Subtraction to 40 Identifying Composing and Partitioning Shapes and Place Value Comparison Addition and Subtraction to 100

**Eureka Math Grade 5 Study Guide** Great Minds,2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math

curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 5 provides an overview of all of the Grade 5 modules including Place Value and Decimal Fractions Multi Digit Whole Number and Decimal Fraction Operations Addition and Subtraction of Fractions Multiplication and Division of Fractions and Decimal Fractions Addition and Multiplication with Volume and Areal Problem Solving with the Coordinate Plane      **Eureka Math Grade 4 Study Guide** Great Minds,2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 4 provides an overview of all of the Grade 4 modules including Place Value Rounding and Algorithms for Addition and Subtraction Unit Conversions and Problem Solving with Metric Measurement Multi Digit Multiplication and Division Angle Measure and Plane Figures Fraction Equivalence Ordering and Operations Decimal Fractions and Exploring Measurement with Multiplication      ENC Focus ,2001

**Eureka Math Curriculum Study Guide** Common Core,2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular

components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data [Eureka Math Grade 3 Study Guide](#) Great Minds,2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data **Eureka Math Grade K Study Guide** Great Minds,2015-09-18 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key



components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade K provides an overview of all of the Kindergarten modules including Numbers to 10 Two Dimensional and Three Dimensional Shapes Comparison of Length Weight Capacity and Numbers to 10 Number Pairs Addition and Subtraction to 10 Numbers 10 20 and Counting to 10 and Analyzing Comparing and Composing Shapes

**Mathematics & Economics** National Council on Economic Education, 2005 Use mathematics concepts to teach economics and personal finance skills

**Enriching Your Math Curriculum** Lainie Schuster, 2010 Presents practices and routines designed to support and nourish teachers as they prepare and present a meaningful year of mathematics instruction for fifth grade mathematicians Offers activities lessons and narration that can be easily adapted or adjusted to fit the particular needs of the students or the requirements of a prescribed curriculum

Educators' Learning from Lesson Study Akihiko Takahashi, Thomas McDougal, Shelley Friedkin, Tad Watanabe, 2022-06-30 Offering voices from the field the first of its kind outside of Japan this guide to teaching and learning elementary mathematics highlights real case examples from teachers and educators who share what they have learned through Lesson Study The teachers reports provide vivid examples of new insights and ideas about mathematics about pedagogy and lesson design about student learning and about professional collaboration gained through Lesson Study Each report includes an abbreviated plan of the specific research lesson that led to the new insights which readers can draw from to replicate the powerful learning in their own community The case examples of this book are from Lesson Study in mathematics elementary to lower secondary grade levels focused on what teachers and educators have learned about improving mathematics teaching and learning but many ideas from each report can be applied to other subjects and different grade levels This unique book will be an excellent resource for mathematics teachers in training and practice who seek to improve mathematics teaching and learning in their own and others classrooms including researchers and school administrators who lead professional development

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