

Enduring Understandings and Essential Questions

Mathematics K-12

Wallingford Public Schools

Organization is based on the current State Frameworks in Mathematics. The parentheses indicate the proposed structure for the revision of the Math Frameworks.

Enduring Understandings	Essential Questions
Number Sense- (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> • There are many ways to represent a number. • The problem in front of you is a member of a larger class of problems. • Number sense develops through experience. 	<ul style="list-style-type: none"> • How do I determine the best numerical representation (pictorial, symbolic, objects) for a given situation? • How does finding the common characteristics among similar problems help me to be a more efficient problem solver? • What kinds of experiences help develop number sense?
Operations- (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> • Operations create relationships between numbers. • The relationships among the operations and their properties promote computational fluency. 	<ul style="list-style-type: none"> • Why do I need mathematical operations? • How do mathematical operations relate to each other? • How do I know which mathematical operation (+, -, x, ÷, exponents, etc.) to use? • How do I know which computational method (mental math, estimation, paper and pencil, and calculator) to use?
Estimation and Approximation- (Numeric Reasoning, Rational Numbers and Proportional Reasoning, Spatial Relationships)	
<ul style="list-style-type: none"> • In certain situations, an estimate is as useful as an exact answer. 	<ul style="list-style-type: none"> • When is it appropriate to use estimation and/or approximation? • How important are estimations in real life situations? • How do I make a reasonable estimate?
Ratios, Proportions, and Percents- (Rational Numbers and Proportional Reasoning and Spatial Relationships)	
<ul style="list-style-type: none"> • Proportional relationships express how quantities change in relationship to each other. 	<ul style="list-style-type: none"> • When and why do I use proportional comparisons? • How does comparing quantities describe the relationship between them?
Measurement- (Spatial Relationships)	
<ul style="list-style-type: none"> • Measurement describes the attributes of objects and events. • Standard units of measure enable people to interpret results or data. • All measurements have some degree of 	<ul style="list-style-type: none"> • Why do I measure? • Why do I need standardized units of measurement? • How does what I measure influence how we measure?

Math Enduring Understandings Essential Questions

Rosina Ehmann



Math Enduring Understandings Essential Questions:

Rigor by Design, Not Chance Karin Hess, 2023-01-18 A practical and systematic approach to deepening student engagement promoting a growth mindset and building a classroom culture that truly supports thinking and learning Every student deserves access to deep and rigorous learning Still some persistent myths about rigor can get in the way such as the belief that it means more or harder work for everyone rather than challenging and advancing students thinking So how can teachers get more clarity on rigor and foster more meaningful learning in their classrooms In *Rigor by Design Not Chance* veteran educator Karin Hess offers not only a clear vision of what makes learning deep and rigorous but also a systematic and equitable approach for engaging students of all ages in rich learning tasks To that end she outlines five essential teacher moves that foster thinking and learning

- 1 Ask a series of probing questions of increasing complexity
- 2 Build schemas in each content area
- 3 Consider ways to strategically scaffold learning
- 4 Design complex tasks that emphasize transfer and evidence based solutions
- 5 Engage students in metacognition and reflection throughout the learning process

From there Hess details how to create an actionable assessment cycle that will drive learning forward in any classroom This book offers a treasure trove of strategies student look for behaviors and templates to guide teachers in their work as well as an array of rich performance based assessments to engage and challenge students School leaders and instructional coaches can also benefit from the variety of teacher friendly supports to foster rigorous learning in their schools Ultimately *Rigor by Design Not Chance* helps educators empower students to take greater ownership of their own learning

Guided Math in Action Nicki Newton, 2021-11-04 Learn how to help elementary students build mathematical proficiency with purposeful standards based differentiated engaging small group instruction This best selling book from Dr Nicki Newton provides a repertoire of in depth strategies for conducting effective guided math lessons scaffolding and managing learning in small groups and assessing learning Dr Newton shows you the framework for guided math lessons and then helps you develop an action plan to get started This fully updated second edition features helpful new sections on beliefs teacher moves planning talking and questioning and kidwatching It also contains a brand new study guide to help you get the most out of the book and use it with your colleagues Perfect for teachers coaches and supervisors this popular resource is filled with tools you can use immediately including anchor charts schedules templates and graphic organizers With the practical help throughout you ll be able to implement Tier 1 and 2 lessons easily This book will help you guide all your students to becoming more competent flexible and confident mathematicians

Leveling Math Workstations in Grades K-2 Nicki Newton, 2019-03-06 In this book from bestselling author Dr Nicki Newton you ll learn how to level math workstations to engage K 2 students in meaningful purposeful rigorous practice We know students don t learn at the same pace so how do we take into account where they are and differentiate instruction Dr Nicki has the answers showing how leveled workstations are key in the formative years how they help students operate in their zone of proximal development and how we can use them to help

students progress to higher levels of math achievement Topics include Understanding the framework for leveled workstations Making sure workstations are rigorous and not just providing busy work Building your stations in key areas such as counting numbers place value fluency and word problems Keeping students accountable and knowing where they are in their learning trajectory Each chapter offers specific examples activities and tools There is also a clear step by step action plan to help you implement the ideas immediately in your own classroom

Guided Math Lessons in Fourth Grade Nicki Newton, 2021-11-29 Guided Math Lessons in Fourth Grade provides detailed lessons to help you bring guided math groups to life Based on the bestselling Guided Math in Action this practical book offers 16 lessons taught in a round of three concrete pictorial and abstract The lessons are based on the priority standards and cover fluency word problems fractions and place value Author Dr Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you ll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can more work effectively in small guided math groups and have loads of fun along the way Remember that guided math groups are about doing the math So doing mathematical sketches to show what they understand and can make sense of the abstract numbers When students are given the opportunities to make sense of the math in hands on and visual ways then the math begins to make sense

Teaching with Clarity Tony Frontier, 2021-06-24 Feeling overwhelmed constantly on a daily basis has unfortunately become the status quo among educators But it doesn t have to be Schools need to stop adding more programs strategies activities resources projects assessments and meetings Though they are often implemented with the best intentions these things ultimately end up as clutter that which inhibits our ability to help students learn Instead teachers need more clarity which emerges when we prioritize our efforts to do less with greater focus This isn t simply a matter of teachers doing less Rather teachers need to be intentional and prioritize their efforts to develop deeper understanding among students In Teaching with Clarity Tony Frontier focuses on three fundamental questions to help reduce curricular and organizational clutter in the interest of clarity and focus What does it mean to understand What is most important to understand How do we prioritize our strategic effort to help students understand what is most important By prioritizing clear success criteria intentional design meaningful feedback and a shared purpose teachers can begin to clear away the curricular clutter that overwhelms the profession and embrace the clarity that emerges

Developing Mathematical Thinking Jonathan D. Katz, 2014-07-07 In this country we have done a poor job of helping students come to see the wonder beauty and power of mathematics Standards can be brought into the picture but unless we think about what it means to truly engage students in mathematics we will continue to be unsuccessful The goal of this book is to begin to change the way students experience mathematics in the middle and high school classrooms In this book you will find a

theoretical basis for this approach to teaching mathematics multiple guides and questions for teachers to think about in relation to their everyday teaching and over 30 examples of problems lessons tasks and projects that been used effectively with urban students *Guided Math Lessons in Third Grade* Nicki Newton,2021-11-29 *Guided Math Lessons in Third Grade* provides detailed lessons to help you bring guided math groups to life Based on the bestselling *Guided Math in Action* this practical book offers 16 lessons taught in a round of 3 concrete pictorial and abstract The lessons are based on the priority standards and cover fluency word problems fractions and place value Author Dr Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you ll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can work more effectively in small guided math groups and have loads of fun along the way Remember that guided math groups are about doing the math So throughout these lessons you will see students working with manipulatives to make meaning doing mathematical sketches to show what they understand and can make sense of the abstract numbers When students are given the opportunities to make sense of the math in hands on and visual ways then the math begins to make sense to them *Vertical Differentiation for Gifted, Advanced, and High-Potential Students* Emily L. Mofield,2022-07-11 *Vertical Differentiation for Gifted Advanced and High Potential Students* outlines 25 engaging tools and strategies to stretch student thinking promote deep learning and provide layers of challenge in the classroom and beyond Each strategy is expertly designed to foster deep inquiry and conceptual understanding by guiding students to justify conclusions apply critical and creative thinking develop solutions to real world problems and transfer learning across contexts Packed with both tried and true thinking models and new innovative ideas with concrete examples this resource ensures that no matter where students are in their learning journey they ll find themselves challenged and engaged This book is essential reading for educators looking to support and extend student thinking across content areas and grade levels *Guided Math Lessons in Kindergarten* Nicki Newton,2021-11-29 *Guided Math Lessons in Kindergarten* provides detailed lessons to help you bring guided math groups to life Based on the bestselling *Guided Math in Action* this practical book offers 16 lessons taught in a round of three concrete pictorial and abstract The lessons are based on the priority standards and cover fluency word problems counting and cardinality and place value Author Dr Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you ll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can more work effectively in small guided math groups and have loads of fun along the way Remember

that guided math groups are about doing the math So throughout these lessons you will see students working with manipulatives to make meaning doing mathematical sketches to show what they understand and can make sense of the abstract numbers When students are given the opportunities to make sense of the math in hands on and visual ways then the math begins to make sense to them

Effective Educational Programs, Practices, and Policies for English Learners

Liliana Minaya-Rowe,2014-10-01 The central issue of this volume is how to meet the linguistic and academic needs of the increasing numbers of English learners ELs At the center of educational turns is the role of school professionals in this Common Core Standards era Teacher education programs and professional development or pre service and in service programs for teachers of ELs are currently being reframed to reflect the new demands placed on all teachers in light of the new standards The expectation is that ELs can learn and their teachers possess the expertise to teach both discipline content and academic English at the same time The large numbers of ELs across the country have created a wide gap between what teachers have been trained to do and the skills they need to teach and reach them effectively This practical handbook brings together research policy and practice on teacher effectiveness pre service and in service programs in the context of student linguistic and cultural diversity Key features include Clearly articulated teacher training and professional development programs Coverage of Common Core curriculum and a variety of instructional programs and practices with research based tools to implement them and Policies to equitably and effectively prepare ELs academically and linguistically

Creating Standards-Based Integrated Curriculum Susan M. Drake,2012-05-08 In this completely revised and updated edition of Susan Drake s classic text on integrated curriculum the author provides a new approach to standards based curriculum instruction and assessment

Collaborating to Support All Learners in Mathematics and Science

Faye Brownlie,Carole Fullerton,Leyton Schnellert,2011-06-23 In this second volume of It s All About Thinking the authors focus their expertise on the disciplines of mathematics and science translating principles into practices that help other educators with their students How can we help students develop the thinking skills they need to become successful learners How does this relate to deep learning of important concepts in mathematics and science How can we engage and support diverse learners in inclusive classrooms where they develop understanding and thinking skills In this book Faye Leyton and Carole explore these questions and offer classroom examples to help busy teachers develop communities where all students learn This book is written by three experienced educators who offer a welcoming and can do approach to the big ideas in math and science education today In this book you will find insightful ways to teach diverse learners Information circles open ended strategies inquiry manipulatives and models lessons crafted using curriculum design frameworks udl and backwards design assessment for as and of learning fully fleshed out lessons and lesson sequences inductive teaching to help students develop deep learning and thinking skills in Math and Science assessment tools and student samples for concepts drawn from learning outcomes in Math and Science curricula excellent examples of theory and practice made accessible real school

examples of collaboration teachers working together to create better learning opportunities for their students *Teaching English Language Learners* Michaela Colombo, Dana Furbush, 2009 This book prepares mainstream teachers to provide content instruction to English language learners **Dance Integration** Karen A. Kaufmann, Jordan Dehline, 2014-06-23 Do you want to create a rich and vibrant classroom environment stimulate your students minds in multiple ways transform your teaching through incorporating the arts in your mathematics and science curriculums Then Dance Integration 36 Dance Lesson Plans for Science and Mathematics is just the book for you The dance lesson plans in this groundbreaking book infuse creativity in mathematics and science content Students will gain a wealth of critical knowledge deepen their critical thinking skills and learn to collaborate and communicate effectively Written for K 5 teachers who are looking for creative ways to teach the standards Dance Integration will help you bring your mathematics and science content to life as you guide your students to create original choreography in mathematics and science and perform it for one another In doing so you will help spark new ideas for your students out of those two curriculums no more same old same old And in the freshness of these new ideas students will increase comfort in performing in front of one another and discussing performances while deepening their understanding of the core content through their kinesthetic experiences The creative thinking skills that you will teach through these lesson plans and the innovative learning that dance provides are what set this book apart from all others in the field Dance Integration was extensively field tested by authors Karen Kaufmann and Jordan Dehline The book contains these features Instructions on developing modules integrating mathematics and science Ready to use lesson plans that classroom teachers physical education teachers dance educators and dance specialists can use in teaching integrated content in mathematics and science Tried and true methods for connecting to 21st century learning standards and integrating dance into K 5 curriculums This book which will help you assess learning equally in dance science and mathematics is organized in three parts Part I introduces the role of dance in education defines dance integration and describes the uses benefits and effects of dance when used in tandem with another content area Part II offers dance and mathematics lessons that parallel the common core standards for mathematics Part III presents dance and science learning activities in physical science life science earth and space sciences investigation experimentation and technology Each lesson plan includes a warm up a developmental progression of activities and formative and summative assessments and reflections The progressions help students explore experiment create and perform their understanding of the content The plans are written in a conversational narrative and include additional notes for teachers Each lesson explores an essential question relevant to the discipline and may be taught in sequence or as a stand alone lesson Yes Dance Integration will help you meet important standards Common Core State Standards for Mathematics Next Generation Science Standards Standards for Learning and Teaching Dance in the Arts More important this book provides you with a personal aesthetic realm in your classroom that is not part of any other school experience It will help you bring joy and excitement into your classroom And it will help you awaken a

community of active and eager learners Isn t that what education is all about

Creating Curriculum in Early Childhood Julie Bullard,2019-11-25 Creating Curriculum in Early Childhood explores the backward design model of curriculum development equipping readers with the tools and methods they need to effectively apply backward design in the early childhood classroom Clear yet comprehensive chapters walk new and veteran educators through an effective method for curriculum design that promotes meeting standards through intentional teaching while engaging children in developmentally appropriate interest based education focused on big ideas and conceptual understanding Featuring desired results assessment methods and teaching techniques specific to birth to age eight this critical guide also includes practical tips for educators new to the method Designed to help students and practitioners alike this powerful textbook combines early childhood philosophy and developmental research with highly practical descriptions rationales and examples for developing curricular units using backward design

Leverage Leadership 2.0 Paul Bambrick-Santoyo,2018-07-09 Cut through the mystique to learn the real drivers of great school leadership Leverage Leadership 2 0 answers the basic question what do great school leaders do that separates them from the rest Rooted in the observation and training of over 20 000 school leaders worldwide Leverage Leadership 2 0 offers a practical updated and easier to use follow up to the original with field tested techniques and actionable advice As educational leaders around the world implement Leverage Leadership ideas their collective stories have revealed a simple framework by which the seven levers may be implemented See It Name It Do It This book aligns classic Leverage Leadership principles with this proven framework to streamline implementation and help good leaders become great Expert discussion and real life success stories prove that effective leadership is not about innate charisma charm or personality it s about how a leader uses their time Aimed at all levels of school leadership this book shows you what to do and how and when to do it The companion DVD includes 30 real world videos that showcase effective leadership happening in our schools right now and all templates tools and other professional development materials have been fully refreshed with a renewed focus on real world implementation Informational inspirational and highly motivational this book explores both the separate components of success and what it looks like as a whole Learn the core principles of effective leadership Understand what success looks like on the ground Practice the seven levers of leadership that allow transformational growth Adopt the tools and techniques that facilitate a schoolwide transformation Educational leaders from a diverse array of schools around the world have found unprecedented success using the key principles detailed in Leverage Leadership and this book is inspired and informed by their stories Leverage Leadership 2 0 is the practical resource school leaders need to start making real change happen today

Curriculum Leadership by Middle Leaders Kelvin Heng Kiat Tan,Mary Anne Heng,Christina Lim-Ratnam,2016-08-12 Curriculum Leadership by Middle Leaders focusses on major issues relating to the continuing national and international discourse on curriculum leadership and highlights the vital role of middle leaders in schools School leadership has focused primarily on first order change involving school leaders or principals

This book seeks to put the spotlight on second order change that involves curriculum leadership and professional development support on the part of middle leaders for more sustainable and long term change in teaching and learning that will influence what happens in classrooms With timely and thought provoking contribution from authors who pursue a range of scholarly interests in multiple educational settings the book is guided by several underlying questions How might we re envision curriculum leadership so that it addresses both local and global concerns and aspirations How might we better grasp how middle leaders understand and respond to the pressures of educational reform initiatives How might middle leaders transform pressures into possibilities This book will appeal to current teachers those currently undertaking teacher training and students or academics carrying out research in the field of educational leadership Understanding by Design Grant P. Wiggins, Jay McTighe, 2005 What is understanding and how does it differ from knowledge How can we determine the big ideas worth understanding Why is understanding an important teaching goal and how do we know when students have attained it How can we create a rigorous and engaging curriculum that focuses on understanding and leads to improved student performance in today s high stakes standards based environment Authors Grant Wiggins and Jay McTighe answer these and many other questions in this second edition of Understanding by Design Drawing on feedback from thousands of educators around the world who have used the UbD framework since its introduction in 1998 the authors have greatly revised and expanded their original work to guide educators across the K 16 spectrum in the design of curriculum assessment and instruction With an improved UbD Template at its core the book explains the rationale of backward design and explores in greater depth the meaning of such key ideas as essential questions and transfer tasks Readers will learn why the familiar coverage and activity based approaches to curriculum design fall short and how a focus on the six facets of understanding can enrich student learning With an expanded array of practical strategies tools and examples from all subject areas the book demonstrates how the research based principles of Understanding by Design apply to district frameworks as well as to individual units of curriculum Combining provocative ideas thoughtful analysis and tested approaches this new edition of Understanding by Design offers teacher designers a clear path to the creation of curriculum that ensures better learning and a more stimulating experience for students and teachers alike *Converting STEM into STEAM Programs* Arthur J. Stewart, Michael P. Mueller, Deborah J. Tippins, 2020-02-27 This book examines the push and pull of factors contributing to and constraining conversion of STEM science technology engineering and math education programs into STEAM science technology engineering math and arts education programs The chapters in this book offer thought provoking examples theory and suggestions about the advantages methods and challenges involved in making STEM to STEAM conversions at levels ranging from K12 through graduate university programs A large driving force for STEM to STEAM conversions is the emerging awareness that the scientific workforce finds itself less than ideally prepared when engaging with so called wicked problems the complex suite of emerging multifaceted issues such as global climate change social

injustice and pandemic diseases Dealing with these issues requires cross disciplinary expertise and the ability to insert technical and scientific understanding effectively into areas of public planning and policy The different models and possibilities for STEAM as the next phase of the STEM revolution laid out in this book will promote research and further our understanding of STEAM as a forward thinking approach to education Gillian Roehrig STEM Education University of Minnesota USA The ideal teacher sees opportunities for integrating ideas from multiple disciplines into every lesson This book offers many worthwhile suggestions on how to do that deliberately and systematically George DeBoer Project 2061 of the American Association for the Advancement of Science USA For the last several years calls for expanding STEM education have grown but so too have concerns about technocratic approaches to STEM This volume challenges the community to consider broader views on STEM by focusing on the place of arts education within this movement The chapters offer much needed new perspectives on the re integration of the arts and sciences Troy Sadler School of Education University of North Carolina USA

A Practical Guide for edTPA Implementation Lisa Barron, 2019-09-01 edTPA is the most widely used performance assessment for pre service teachers in the United States and a requirement in many states for teaching licensure Through edTPA teacher candidates demonstrate their effectiveness in different aspects of teaching including planning instruction assessment analysis of teaching and use of academic language This book is a practical guide for anyone involved in edTPA implementation The chapters are written by experienced teacher educators who are leading successful edTPA programs in their own universities who are in the field and involved in the work They represent diverse teacher preparation programs each with their own strengths and challenges This book addresses the challenges of edTPA while providing practical strategies for educative and thoughtful implementation Organized into four sections each section explores a different aspect of edTPA implementation and provides guidance for leading faculty and teacher candidates through edTPA

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